

# Re: Authenticating a user on Windows Server 2003

*Source:* <http://www.derkeiler.com/Newsgroups/microsoft.public.platformsdk.security/2003-09/0168.html>

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*From:* Matthias Moetje ([moetje\\_at\\_terasens\\_nospam\\_.de](mailto:moetje_at_terasens_nospam_.de))

*Date:* 09/11/03

Date: Thu, 11 Sep 2003 15:23:07 +0200

Hi Paul,

> *b) Ensure "Access this computer from the network" right is assigned to everyone and is effective for all those who needs to login.*

Everyone has this right.

I finally implemented the code from

[http://www.develop.com/kbrown/security/code/sspi\\_auth.cpp](http://www.develop.com/kbrown/security/code/sspi_auth.cpp)

and still get the same results (which did not surprise me because I already used two different implementations that produced the same result.)

Do you use Win2003 yourself? Can anyone confirm that any of those implementations does work on W2k3 DC Server with default installation?

> *a) Enable Auditing of Failed Logon Events and post the login failure here*  
or  
> *email it to my hotmail account:*

(translated from German)

EventID: 529

Failed Logon:

Reason: Unknown Username or invalid password

User: administrator

Domain: TEST

LogonType: 3

LogonProcedure: NtLmSsp

Auth Package: NTLM

Name of Workstation: OFFICE

Aufruferbenutzername: -

Aufruferdomäne: -

Aufruferanmeldekennung: -

Aufruferprozesskennung: –  
Übertragene Dienste: –  
Quellnetzwerkadresse: –  
Quellport: –

The Username and password I supply are correct. I call the application with:

authenticate DOMAIN administrator PASSWORD

Anyone an idea?

Thanks,

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Matthias Moetje

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"Paul Todd" <reg\_todd@hotmail.com> wrote in message  
news:%23\$w5W7xdDHA.1932@TK2MSFTNGP10.phx.gbl...  
> Okay I would suggest Three things:  
> a) Enable Auditing of Failed Logon Events and post the login failure here  
or  
> email it to my hotmail account.  
> b) Ensure "Access this computer from the network" right is assigned to  
> everyone and is effective for all those who needs to login.  
> c) Try the code at this link and see if it works.  
> [http://www.develop.com/kbrown/security/code/sspi\\_auth.cpp](http://www.develop.com/kbrown/security/code/sspi_auth.cpp)  
>  
> Paul  
>  
> "Matthias Moetje" <moetje@terasens\_nospam.de> wrote in message  
> news:OONz31hdDHA.904@TK2MSFTNGP11.phx.gbl...  
> > Hi,  
> >  
> > the code is taken from the KB article basically it's:  
> >  
> > // Prepare client message (negotiate) .  
> > if (!GenClientContext(&asClient, &ai, NULL, 0, pClientBuf,  
> > &cbOut, &fDone)) \_\_leave;  
> >  
> > // Prepare server message (challenge) .  
> > if (!GenServerContext(&asServer, pClientBuf, cbIn, pServerBuf,  
> > &cbOut, &fDone)) \_\_leave;  
> >  
> > // Prepare client message (authenticate) .  
> >  
> > if (!GenClientContext(&asClient, &ai, pServerBuf, cbIn, pClientBuf,  
> > &cbOut,&fDone)) \_\_leave;  
> >  
> > // Prepare server message (authentication) .

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```
> >     if (!GenServerContext(&asServer, pClientBuf, cbIn, pServerBuf,
> >         &cbOut, &fDone)) __leave;
> >
> > Here's the outline of GenServerContext:
> >
> >     ss = _AcquireCredentialsHandle(NULL, _T("NTLM"),
SECPKG_CRED_INBOUND,
> >         NULL, NULL, NULL, NULL, &pAS->hcred, &tsExpiry);
> >
> >     ss = _AcceptSecurityContext(&pAS->hcred, pAS->fInitialized ?
> &pAS->hctxt
> > : NULL,
> >         &sbIn, 0, SECURITY_NATIVE_DREP, &pAS->hctxt, &sbOut, fContextAttr,
> >         &tsExpiry);
> >
> >     if (ss == SEC_I_COMPLETE_NEEDED || ss ==
SEC_I_COMPLETE_AND_CONTINUE)
> {
> >         if (_CompleteAuthToken) {
> >             ss = _CompleteAuthToken(&pAS->hctxt, &sbOut);
> >         }
> >     }
> >
> > Here's the outline of GenClientContext:
> >
> >     ss = _AcquireCredentialsHandle(NULL, _T("NTLM"),
> SECPKG_CRED_OUTBOUND,
> >         NULL, pAuthIdentity, NULL, NULL, &pAS->hcred, &tsExpiry);
> >
> >     ss = _InitializeSecurityContext(&pAS->hcred, pAS->fInitialized ?
> &pAS->hctxt : NULL,
> >         NULL, 0, 0, SECURITY_NATIVE_DREP, pAS->fInitialized ? &sbIn :
NULL,
> >         0, &pAS->hctxt, &sbOut, &fContextAttr, &tsExpiry);
> >
> >
> > The complete code can be found on page
> > http://support.microsoft.com/default.aspx?scid=kb;en-us;180548
> > or tell me if you need more details
> >
> > Thanks very much for your help,
> > best regards,
> >
> > --
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> > -----
> > "Paul Todd" <reg_todd@hotmail.com> wrote in message
> > news:%23$fxBNhdDHA.1728@TK2MSFTNGP09.phx.gbl...
> > > Maybe you can post some of your code. We use SSPI for authentication
and
> > > have not had a problem with 2003 - many of our customers are using it
> > now.
> > >
```

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> > > Paul  
> > >  
> > > "Matthias Moetje" <moetje@terasens\_nospam\_.de> wrote in message  
> > > news:exB%23mKbdDHA.1532@TK2MSFTNGP10.phx.gbl...  
> > > > Hi Nick, thanks for your reply.  
> > > >  
> > > > I am executing this code directly on the DC.  
> > > > I deactivated the option you mentioned and rebooted.  
> > > > The effective policy settings for the DC machine show that  
> > > > the option is really deactivated. But the problem was not  
> > > > solved, I keep getting the same error.  
> > > >  
> > > > If the problem was about signed communication  
> > > > wouldn't the code fail on some function before  
> > > > AcceptSecurityContext anyway?  
> > > >  
> > > > Thanks very much for your help,  
> > > >  
> > > > --  
> > > > Matthias Moetje  
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> > > > -----  
> > > > "Nick Finco [MSFT]" <nfinco@online.microsoft.com> wrote in message  
> > > > news:uRgnoUZdDHA.1712@tk2msftngp13.phx.gbl...  
> > > > > One difference with WS2003 is that sign/seal for SMB has been  
> > > > enabled  
> > > > by  
> > > > > default on DCs. This will cause WinNT and Win9x clients to fail  
> > > > in  
> > > > > their  
> > > > > authentication attempt. Try turning off the "Microsoft network  
> > > > > server:  
> > > > > Digitally sign communications (always)" option on your DC.  
> > > > >  
> > > > > N  
> > > > >  
> > > > > --  
> > > > > This posting is provided "AS IS" with no warranties, and confers  
> > > > no  
> > > > > rights.  
> > > > > Use of included script samples are subject to the terms specified  
> > > > > at  
> > > > > <http://www.microsoft.com/info/copyright.htm>  
> > > > >  
> > > > >  
> > > > > "Matthias Moetje" <moetje@terasens\_nospam\_.de> wrote in message  
> > > > > news:uqizmoMdDHA.1044@TK2MSFTNGP10.phx.gbl...  
> > > > > > Hi,  
> > > > > >  
> > > > > > I have previously been using code derived from KB article  
> > > > > > Q180548 HOWTO: Validate User Credentials on Microsoft Operating  
> > > > > > Systems.  
> > > > > >  
> > > > > > This code always worked well on W2k and WinXP but on Windows

