

Re: (New Subject): How to eliminate prompt for credentials when using RPC over HTTP

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Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2005-08/msg00669.html>

- *From:* "Gary Karasik" <gkarasik@xxxxxxx>
 - *Date:* Mon, 1 Aug 2005 17:50:08 -0700
-

> When you say it works fine under basic authentication, do you mean that
> you
> were asked for a password, you gave it, and then it connected fine?

Exactly.

> If it worked with basic authentication, did you remember to change the
> NTLM authentication and SSL settings in IIS when you changed the
> configuration in Outlook to use NTLM and SSL?

Yes. With Outlook changed to NTLM (and the server/IIS changed to NTLM), the server never asks for a password at all.

> To see if it's a certificate issue, go to RWW or OWA (using your server's
> external IP address) and see if it pops up a security alert about your
> certificate. If it does, there's your problem; the certificate needs to
> be installed, have valid dates, and the name should match the name of your
> server (in this case, it's IP address) to avoid the security alert. A
> certificate issue will prevent Outlook from connecting via SSL without
> giving you any sign of why.

Can it be the SBS/Self-signed cert, or must it be an actual, 3rd-party cert?

GaryK

>
>
> "Gary Karasik" <gkarasik@xxxxxxx> wrote in message
> news:e2JgDDtIFHA.664@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>> I may be missing a step. When I set Outlook for NTLM (after confirming the
>> other steps), Outlook doesn't ask for a password—just tries to open,
>> then
>> tells me there's no Exchange server available. Everything works fine
>> under
>> Basic Authentication. I did see the NTLM password prompt once, and check
>> remember password, and that may be the problem—wrong password may be in

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>> there, but I can't figure out how to clear it if that is the problem.
>>
>> GaryK
>>
>> "Bryan L" <blinton.nospam@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
>> news:%23%23EA4VslFHA.3256@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>> My pleasure. My only request is that you and others post back their
>>> results if they find this helpful (or not).
>>>
>>> Bryan
>>>
>>>
>>> "Gary Karasik" <gkarasik@xxxxxxx> wrote in message
>>> news:uqD45JslFHA.420@xxxxxxxxxxxxxxxxxxxxxxxxxxxx
>>>> Thanks for taking the time to do this, Bryan.
>>>>
>>>> GaryK
>>>>
>>>> "Bryan L" <blinton.nospam@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
>>>> [news:e1eFa\\$rlFHA.1412@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:e1eFa$rlFHA.1412@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)
>>>>> It's been a while, but here's what I remember about what I had to do.
>>>>> Note that your Outlook 2003 client must be running on XP Pro for this
>>>>> to
>>>>> work. XP Home can connect fine, but it will always prompt for
>>>>> credentials even if you follow all these instructions. That's just
>>>>> the
>>>>> way it is, unfortunately. For the benefit of others, I've tried to
>>>>> make
>>>>> this as comprehensive as I can (and have time for). For additional
>>>>> information resources, see the KB link at the end of this post.
>>>>>
>>>>> Also please note that I'm certainly not a SBS MVP, or any other kind
>>>>> of
>>>>> MVP, for that matter. Any corrections or clarifications by the
>>>>> experts
>>>>> are welcome and should be taken into consideration.
>>>>>
>>>>> The basic things that must be done:
>>>>>
>>>>> – Make sure the web certificate for your SBS is correctly configured,
>>>>> and that it is installed on the client running Outlook 2003.
>>>>> – Make sure the RPC virtual directory in IIS is configured to use
>>>>> Integrated Windows authentication instead of Basic authentication, and
>>>>> to use 128-bit SSL encryption.
>>>>> – Make sure the client's registry is configured to use
>>>>> LMCompatibilityLevel 2 or 3
>>>>> – Configure Outlook's Exchange Proxy Settings with the Public IP, SSL,
>>>>> and authentications settings that match what you did in the steps
>>>>> above.
>>>>>
>>>>> I'll now hit on each of the above.

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>>>>>
>>>>>
>>>>> *Certificate Configuration*
>>>>>
>>>>> First of all, a web server certificate is automatically created when
>>>>> you
>>>>> run the Configure E-mail and Internet Connection Wizard. This
>>>>> certificate is used to configure Secure Sockets Layer (SSL), which
>>>>> secures communications between a Web browser and your Web server. You
>>>>> need to be using such a certificate, and it needs to be configured so
>>>>> that no Security Alert pops up regarding the certificate. To avoid
>>>>> the
>>>>> security alert pop-up, three things must be true:
>>>>>
>>>>> 1. That certificate needs to be trusted by the client (installed on
>>>>> the
>>>>> client).
>>>>> 2. The certificate must have valid dates.
>>>>> 3. The certificate name must match the name of the page using it.
>>>>>
>>>>> Take care of any issues with "2" or "3" before doing "1". The reason
>>>>> for this is that if you have to make changes to 2 or 3, you'll have to
>>>>> reinstall the certificate on the client anyway.
>>>>>
>>>>> If you're not sure whether you've created a certificate for use with
>>>>> SSL, do this: while visiting RWW or OWA, check the address bar. If it
>>>>> says "https:", then your server is using a certificate; if it says
>>>>> "http:", you should run the Configure E-mail and Internet Connection
>>>>> Wizard to create a web certificate.
>>>>>
>>>>> If you have already created a certificate but find you need to change
>>>>> the valid dates or certificate name, re-run the wizard. When choosing
>>>>> a
>>>>> name, consider the following:
>>>>>
>>>>> – We are a smaller organization and do not have a public DNS entry for
>>>>> our public IP (our website is hosted elsewhere), so we have to use the
>>>>> public IP when connecting to OWA and RWW services on our server. To
>>>>> avoid problems with the name not matching, I re-ran the wizard and
>>>>> selected our public IP address as the Web server name. I'm assuming
>>>>> that you already have port forwarding or 1:1 NAT set up to direct this
>>>>> external traffic to your server's internal IP.
>>>>>
>>>>> Once you've set things up so the certificate name or valid dates won't
>>>>> cause a security alert, you can install the certificate on the client.
>>>>> To do this, on the client computer, navigate to RWW or OWA using your
>>>>> public IP address. When the Security Alert dialog box appears, there
>>>>> should be only 1 yellow alert that says "The security certificate was
>>>>> issued by a company you have not chosen to trust"; the other two items
>>>>> should have green check marks and say "The security certificate date
>>>>> is

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>>>>> valid" and "The security certificate has a valid name". If not, go
>>>>> back
>>>>> and make sure you've addressed those issues. If the only alert is on
>>>>> the certificate not being trusted, click View Certificate, and then
>>>>> Install Certificate. Accept all defaults offered by the Certificate
>>>>> Import Wizard until the installation is complete.
>>>>>
>>>>> Now, a visit to RWW or OWA should not cause a Security Alert. This
>>>>> means the certificate is correctly installed. This is important,
>>>>> because if Outlook tries to use RPC over HTTP with SSL and the
>>>>> certificate isn't correctly configured, you won't get a warning or a
>>>>> message; it just won't connect.
>>>>>
>>>>>
>>>>>
>>>>> *IIS Configuration on SBS*
>>>>>
>>>>> – Open IIS on the SBS. Browse to the Default Web Site > Rpc virtual
>>>>> directory, right-click it, and choose "Properties", then select the
>>>>> Directory Security tab.
>>>>>
>>>>> – Under Authentication and access control, click Edit. The default
>>>>> setting here will probably be "Basic authentication (password is sent
>>>>> in
>>>>> clear text)". Change it to "Integrated Windows authentication" and
>>>>> make
>>>>> sure it's the only checkbox selected, then click OK.
>>>>>
>>>>> – Under Secure communications, click Edit. Make sure "Require secure
>>>>> channel (SSL)" and "Require 128-bit encryption" are both checked.
>>>>> Under
>>>>> Client certificates, you probably want "Ignore client certificates"
>>>>> (that's what I've got). Click OK to exit all dialog boxes and close
>>>>> IIS.
>>>>>
>>>>>
>>>>> *LMCompatibilityLevel settings*
>>>>>
>>>>> – Open registry editor by clicking Start > Run, and typing regedit,
>>>>> then
>>>>> hit enter or click OK
>>>>>
>>>>> – Locate and the click the following registry subkey:
>>>>>
>>>>> HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa\
>>>>>
>>>>> – In the right pane, double-click lmcompatibilitylevel
>>>>>
>>>>> – In the Value data box, type a value of 2 or 3 that is appropriate
>>>>> for
>>>>> your environment, and then click OK. Then quit registry editor and

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>>>>> restart your computer.
>>>>>
>>>>>
>>>>> *Configure Outlook*
>>>>>
>>>>> – Navigate to the Exchange Proxy Settings box in Outlook 2003.
>>>>>
>>>>> – For the URL to connect, type the external IP used to connect to your
>>>>> SBS; this should also happen to be what you used as the Web server
>>>>> name
>>>>> in the Configure E-mail and Internet Connection Wizard.
>>>>>
>>>>> – Select the "Connect using SSL only" checkbox and the "Mutually
>>>>> authenticate" checkbox underneath it. In the "Principal name for
>>>>> proxy
>>>>> server" field, type "msstd:" followed immediately by the Public IP
>>>>> address you just typed above, using no spaces.
>>>>>
>>>>> – Under "Proxy authentication settings", choose "NTLM Authentication"
>>>>>
>>>>> Note: if you're doing this on the SBS Lan (or if you have a *very*
>>>>> fast
>>>>> WAN connection to your SBS from the outside), you might want to also
>>>>> check the "On fast networks" option in addition to the "On slow
>>>>> networks" option, so you can test whether RPC over HTTP is working
>>>>> properly. Do this by running Outlook from the command prompt with the
>>>>> /rpediag switch. If you don't want to use RPC over HTTP for fast
>>>>> connections, make sure you change this setting back once you've
>>>>> finished
>>>>> testing.
>>>>>
>>>>> And, you're done! Unless I'm forgetting something (I don't think I
>>>>> am,
>>>>> but I could be wrong), you should now be able to connect Outlook 2003
>>>>> clients running on XP Pro to Exchange, without providing credentials.
>>>>> Except for the first time, of course; enter the password and tell it
>>>>> to
>>>>> remember it, and you shouldn't have to type it again.
>>>>>
>>>>> This works for home computers even when the computer is not a member
>>>>> of
>>>>> the domain, and the user account name used at home doesn't match the
>>>>> domain username of the exchange user. I don't recall if you need a
>>>>> VPN
>>>>> connection for the initial setup of the user in Outlook, but I don't
>>>>> believe you do, if all this is correctly configured; you should be
>>>>> able
>>>>> to resolve the user name over the RPC over HTTP connection during
>>>>> setup.
>>>>> Again, if I'm misstating this, someone more expert than me will
>>>>> hopefully please say so.

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◇ From: Bryan L

◆ **[Re: \(New Subject\): How to eliminate prompt for credentials when using RPC over HTTP](#)**

◇ From: Gary Karasik

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◇ From: Bryan L

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◇ From: Bryan L

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