

# Re: httpwebrequest with https behind proxy with authentication

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*Source:*

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework/2007-12/msg00128.html>

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- *From:* "Andrea Pierini" <[andrea\\_maticad@xxxxxxxxxxxxxx](mailto:andrea_maticad@xxxxxxxxxxxxxx)>
  - *Date:* Mon, 10 Dec 2007 09:24:00 +0100
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Hi to all,

after searching and searching perhaps I have found the problem, it is documented in Microsoft KB928563. Can anyone who has access to the hotfixes confirm this?

Regards,

Andrea Pierini

"Andrea Pierini" <[andrea\\_maticad@xxxxxxxxxxxxxx](mailto:andrea_maticad@xxxxxxxxxxxxxx)> wrote in message <news:A83DD1A4-8C6C-4653-AF56-31D5F6C027CE@xxxxxxxxxxxxxx>

Hi Steven,

first of all thanks for your answer.

Our proxy server uses NTLM authentication and as you suggested I modified the code as follows:

```
*****  
WebRequest req = WebRequest.Create("https://www.domus3d.com/ws/test.txt");  
Uri proxyuri = new Uri("http://192.168.0.6:3128");  
WebProxy proxy = new WebProxy(proxyuri, true);  
NetworkCredential cred = new NetworkCredential("administrator", "xxxxx",  
"WEBSERVER12");  
CredentialCache credcache = new CredentialCache();  
credcache.Add(proxyuri, "NTLM", cred);  
proxy.UseDefaultCredentials = false;  
proxy.Credentials = credcache;  
req.Proxy = proxy;  
WebResponse res = req.GetResponse();  
*****
```

I still receive "The remote server returned an error: (407) Proxy Authentication Required."  
and it works if I use http instead of https or if I disable authentication on the proxy (I can do it  
to make some tests, but our customers can't). This is the proxy server log:

```
*****  
1197019352.005 0 192.168.0.250 TCP DENIED/407 2108 CONNECT  
www.domus3d.com:443 - NONE/- text/html  
1197019425.021 73000 192.168.0.250 TCP MISS/200 3322 CONNECT  
www.domus3d.com:443 webserver12\administrator DIRECT/62.149.195.31 -
```

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1197019632.552 0 192.168.0.250 TCP DENIED/407 1839 GET  
http://www.domus3d.com/ws/test.txt – NONE/– text/html  
1197019632.568 0 192.168.0.250 TCP DENIED/407 2153 GET  
http://www.domus3d.com/ws/test.txt – NONE/– text/html  
1197019632.599 31 192.168.0.250 TCP HIT/200 464 GET  
http://www.domus3d.com/ws/test.txt webserver12\administrator NONE/–  
application/octet–stream  
1197021220.771 39422 192.168.0.250 TCP MISS/200 3466 CONNECT  
www.domus3d.com:443 webserver12\administrator DIRECT/62.149.195.31 –  
\*\*\*\*\*

Line #1 is the .Net code trying to access the file over https (doesn't work); line #2 is FireFox successfully accessing the file over https; line #3/4/5 is the .Net code successfully accessing the file over http; line #6 is Internet Explorer successfully accessing the file over https. It seems that the .Net code doesn't pass the proxy authentication over HTTP CONNECT.

Any idea?

Thanks in advance,  
Andrea Pierini

"Steven Cheng[MSFT]" <stcheng@xxxxxxxxxxxxxxxxxxxx> wrote in message  
news:OdEVtUIOIH.A.7908@xxxxxxxxxxxxxxxxxxxxxxxx

Hi Andrea,

From your description, you're using WebRequest component to download a  
file  
from a remote webservice. That webservice is accessed through a proxy and  
the proxy also require authentication. However, you found your webservice  
client always get proxy authentication error, correct?

Based on the code snippet you provided, you directly create a  
NetworkCredential (with username/password pair) and send it via  
WebProxy.Credentials. One potential things here is that whether you've  
confirmed what kind of Authentication Type is the webproxy using?  
Integrated windows or basic or ...?

Generally, when sending credential through NetworkCredential, it is  
recommended that you explicitly supply the authenticationType(via  
CredentialCache class). e.g.

=====  
CredentialCache cache = new CredentialCache();  
cache.Add( new Uri(proxy.Url),  
// Web service URL  
"Negotiate",  
// Kerberos or NTLM  
new NetworkCredential("username", "password", "domainname")

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);

proxy.Credentials = cache;

=====

the following thread has also mentioned this:

<http://forums.microsoft.com/MSDN/ShowPost.aspx?PostID=1772251&SiteID=1>

You can try looking at this to see whether this is the cause.

BTW, also check the behavior when you visit it in IE(whether there is any warning or error you interactively ignore), since any interactively ignorable error will cause exception in programmatic code.

Sincerely,

Steven Cheng

Microsoft MSDN Online Support Lead

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Re: httpwebrequest with https behind proxy with authentication

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From: "Andrea Pierini" <andrea\_maticad@xxxxxxxxxxxxxx>  
Subject: httpwebrequest with https behind proxy with authentication  
Date: Thu, 6 Dec 2007 16:26:19 +0100

Hi to all,  
I have a problem to download a file with httpwebrequest when

https protocol is used  
the client is behind a proxy that requires authentication

For example consider the following code:

```
WebRequest req =  
WebRequest.Create("https://www.domus3d.com/ws/test.txt");  
req.Proxy = new WebProxy("http://192.168.0.6:3128, true);  
//  
Proxy available at IP 192.168.0.6 on port 3128  
req.Proxy.Credentials = new NetworkCredential("user",  
"pwd",  
"domain"); // Proxy network credentials  
WebResponse res = req.GetResponse();
```

I always receive "The remote server returned an error: (407)  
Proxy  
Authentication Required.". What's wrong? Note that if I  
make the request  
over http the code works and with Internet Explorer I can  
open the file  
either over http or over https.

Thanks in advance for any help.  
Andrea Pierini

PS: I've seen that many users experience the same problem  
with WSUS 3.0  
behind a proxy with authentication

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