

Re: Basic Authentication fails with Error 401.2 where Integrated s

Source:

<http://www.derkeiler.com/Newsgroups/microsoft.public.inetserver.iis.security/2007-10/msg00083.html>

- *From:* David Wang <w3.4you@xxxxxxxxxx>
 - *Date:* Mon, 29 Oct 2007 11:24:35 -0000
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You want to read the URL that I mentioned in my prior response to make sure that Basic Authentication is allowed to function on your server.

I suspect the problem is either:

1. some security module running on network packets stripping off Authorization: Basic header and causing IIS to return 401.2 before even invoking any security login code of IIS
2. some security lockdown performed on the colo server that is preventing basic authentication (and probably other things – we just don't know what) from working within IIS

It is harder to validate #2 because it comes down to setting-by-setting comparison of a working server with your server. I don't want to get into that situation because I'd rather have the colo server company tell me what they HAVE changed (they should have those changes listed in an automation script somewhere since they built the server for you) instead of trying to ask everyone else what could/not have changed.

#1 requires that you validate with something like Network Monitor on the server itself that the Authorization: Basic header is received by the IIS web server (and not removed by some network security module). And please verify that there is no GLOBAL ISAPI FILTER — you only mentioned the ISAPI Filters tab for each website but not the global ISAPI Filters tab for all websites. At the same time, no Wildcard Application Mapping for *ANY* of the Application mapping settings applicable to the URL under question. There's no simple command to do this — because we are talking about deep, internal server modifications (potentially made by other setup programs), one has to know how IIS works to uncover what other setup programs have configured.

//David

<http://w3-4u.blogspot.com>

<http://blogs.msdn.com/David.Wang>

//

On Oct 29, 3:17 am, Jude Fisher <JudeFis...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote:

Further to the above, here are the results of the MS Authentication & Access Control Diagnostics tool. These are from the directory I want to be working with rather than the /test one but the settings and results are identical. Where it says COMPUTERTNAME\ACCOUNTNAME, this is the account that I am trying to grant access to:

Check Permissions Results

Status Result

Verifying: D:\home\Clients\Marketing4Tradesmen\cpi\
Account: COMPUTERTNAME\ACCOUNTNAME Access type: FULL
Check of D:\home\Clients\Marketing4Tradesmen\cpi\
Diagnostics complete

View Permissions Results

D:\home\Clients\Marketing4Tradesmen\cpi\
COMPUTERTNAME\USERNAME: (OI)(CI)F
D:\home\Clients\Marketing4Tradesmen\cpi\order-postprocess.aspx
COMPUTERTNAME\USERNAME: F

Diagnostics complete

View Site Configuration

W3SVC/1 Default
ServerState Server started
ServerBindings :80:
AuthFlags 5 (0x5) "AuthAnonymous | AuthNTLM"

Authentication Results Url:<http://localhost/clients/Marketing4Tradesmen/cpi/>

AnonymousUserPass logon failed Path:W3SVC

AuthType:Anonymous AnonymousPasswordSync
The current configuration requires IIS subauthentication. However, the IIS subauthentication component, iissuba.dll, is not currently configured.
Path:W3SVC

AuthType:Anonymous
AnonymousPasswordSync

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The current configuration uses IIS subauthentication for anonymous authentication. This requires that the worker process be configured to run as the Local System identity, which is not recommended for security reasons.

Path:W3SVC

AuthType:Anonymous
must be domain member Path:W3SVC

AuthType:Kerberos
Basic authentication is not a secure authentication protocol. You should consider using Secure Sockets Layer (SSL) for added security.

Path:W3SVC/1/ROOT/clients/Marketing4Tradesmen/cpi

AuthType:Basic

Test Authentication

[THIS POPS A DIALOG BOX. VERIFYING THE PASSWORD FORTHE USER I AM WORKING

WITH RETURNS THE RESULT 'SUCCESS'. AUTHENTICATING THIS USER RETURNS:]

Server's response: HTTP/1.1 401 Unauthorized

Learn about IIS status codes

Path:W3SVC/1/ROOT/clients/Marketing4Tradesmen/cpi

AuthType:Basic

Diagnostics complete

Server Permissions Results

Verifying: C:\WINDOWS\help\iishelp\common\
Account: BUILTIN\Administrators Access type: FULL
Account: NT AUTHORITY\SYSTEM Access type: FULL
Account: COMPUTERTNAME\IIS_WPG Access type: READ
Account: BUILTIN\Users Access type: READ | EXECUTE
Check of C:\WINDOWS\help\iishelp\common\
complete, no errors

Verifying: C:\WINDOWS\IIS Temporary Compressed Files\
Account: BUILTIN\Administrators Access type: FULL
Account: NT AUTHORITY\SYSTEM Access type: FULL
Account: COMPUTERTNAME\IIS_WPG Access type: READ | WRITE
Account: CREATOR OWNER Access type: FULL
CREATOR OWNER does not have 'FULL' access to .
Check of C:\WINDOWS\IIS Temporary Compressed Files\
complete, errors found

Verifying: C:\WINDOWS\system32\inetrv\
Account: BUILTIN\Administrators Access type: FULL
Account: NT AUTHORITY\SYSTEM Access type: FULL
Check of C:\WINDOWS\system32\inetrv\
complete, no errors

Verifying: C:\WINDOWS\system32\inetrv\
complete, no errors

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Account: BUILTIN\Users Access type: READ | EXECUTE
BUILTIN\Users does not have 'READ | EXECUTE' access to ASP Compiled
Templates
BUILTIN\Users does not have 'READ | EXECUTE' access to History
BUILTIN\Users does not have 'READ | EXECUTE' access to
MBSchema.bin.00000000h
BUILTIN\Users does not have 'READ | EXECUTE' access to MBSchema.xml
BUILTIN\Users does not have 'READ | EXECUTE' access to MetaBase.xml
Check of C:\WINDOWS\system32\inetrv* complete, errors found

Verifying: C:\WINDOWS\system32\inetrv\ASP Compiled Templates\
Account: COMPUTERTNAME\IIS_WPG Access type: READ
Check of C:\WINDOWS\system32\inetrv\ASP Compiled Templates\
errors

Verifying: C:\inetpub\adminscripts\
Account: BUILTIN\Administrators Access type: FULL
Check of C:\inetpub\adminscripts\
errors

Verifying: C:\WINDOWS\system32\Logfiles\
Account: BUILTIN\Administrators Access type: FULL
Check of C:\WINDOWS\system32\Logfiles\
errors

Diagnostics complete

System Information:

System time Mon, 29 Oct 2007 10:05:15 GMT
OS Windows 2003 Service Pack 2
W3SVC IIS6 – World Wide Web Publishing service is running
MSFTPSVC IIS6 – FTP Publishing service is not started
Host name COMPUTERTNAME
Dns suffix jcfx.eu
Workgroup name WORKGROUPNAME
ModuleFileName C:\Program Files\IIS Resources\AuthDiag\authdiag.exe version:
1.0:43.0

"Jude Fisher" wrote:

David,

- 1) Just as a check I used NET USER /ADD on my test account and as expected it told me the user account already existed.

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2) No ISAPI filters are listed for any of the websites on this computer.

3) I didn't set the server up myself (this is a dedicated server from a major UK host) but I can't see anything in Local Security Settings that could be causing the issue – is there anything specific I should be looking for,?

"David Wang" wrote:

When I see weird and erratic behavior, my first question is "do you have custom ISAPI Filter installed on the server". Both global as well as per-site.

The password dialog is supposed to appear for Basic authentication *unless* the client is allowed to auto-login with Basic. That's not allowed by default for security reasons. You hardly want the browser to automatically hand over your login password to ANY website which asks for it, right?

Thinking more esoterically now -- what are the login rights assigned to your test user. IIS uses a specific login type (configurable), so ability to login via remote desktop is insufficient proof that IIS can login that user. See this URL for more info:
<http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Librar...>

Usually the defaults when you just create a user via NET USER name password /ADD will suffice, but sometimes Group Policies of a domain can alter this behavior (even if you've unjoined this machine from a

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domain).

Are you sure you don't have a proxy or network
policy/device which is
simply forbidding Basic authentication altogether (because it
exposes
the user's password)? For example, it'd be really easy for
such a
proxy or network device (or even ISAPI Filter...) to simply
strip off
the Authorization: Basic header being sent with your
requests, at
which point since you don't have Anonymous enabled, IIS
will return
401.2 EVEN THOUGH you have basic auth enabled --
because to IIS, your
request has been stripped to an anonymous by removing the
Authorization: Basic header. You can test this theory by
temporarily
enabling Anonymous and Basic authentication and ACL'ing
files to allow
access to the IUSR.

working with fails if the initial challenge
isn't basic authentication and(as
I understand it, and please correct if this is
wrong) IIS will try integrated
first and basic second if both are enabled.

Not exactly. IIS only advertises to the HTTP Browser the
authentication protocol it requires with a certain ordering. It
is the
HTTP Browser which determines which authentication
protocol to use. IE
will choose Integrated before Basic if both are enabled.

Brief explanation of what's going on here:

HTTP, like many network protocols, is a give-and-take sort
of
protocol. When it comes to authentication, you can only

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configure the server to REQUIRE certain authentication protocols to get access to secured resources. If an HTTP browser requests the secured resource without using the required authentication protocol, the server simply responds 401.2 with a list of required protocols.

At this point, the browser can either choose to ignore the server's suggestion (not wise), choose an authentication protocol to negotiate (and pop up the login dialog as necessary by security/Internet Zone settings), or auto-login with some credentials in a proprietary algorithm. Now, since the browser is attempting to authenticate with a requested authentication protocol, the server either replies:

- 401.1 if the username/password is incorrect
- 401.3 if the credentials are alright but the NTFS ACLs deny the authenticated credentials access to the secured resource
- 401.4/401.5 if the credentials are alright but an ISAPI Filter/ISAPI Extension denied access for arbitrary reason
- Anything else indicates the credentials are alright and action according to HTTP status code was performed on the server

//David
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On Oct 26, 1:23 am, Jude Fisher
<JudeFis...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote:

Roger,

Yes, to restate the setup is as follows:

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Test directory with simple static test page in it.

On the IIS directory security tab, anonymous access is disabled, digest authentication is disabled, integrated authentication is disabled and basic authentication only is enabled. The two text boxes at the bottom (domain and realm) are empty.

On the windows explorer security dialog for the folder, the test user account created has full permissions for the folder and the file that's in it.

I've tested that the user account can log on through remote desktop connection and once logged on can open that directory and file using windows explorer, so

...

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