

RE: Isa Server 2006 RPC filter blocks RPC traffic

Source:

<http://www.tech-archive.net/Archive/ISA/microsoft.public.isa.configuration/2007-01/msg00056.html>

- *From:* richard <richard@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Fri, 19 Jan 2007 12:30:39 -0800
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Microsoft PSS solved the issue. It seems to be related particularly to Dell PowerEdge 1950 with Broadcom BCM5708c NetExtreme Gigabit NIC and ISA 2006, here is the solution from Microsoft:

There is a similar issue in ISA 2004. It has been addressed in KB 887222 and fixed in ISA 2004 SP1. For ISA 2006, that issue doesn't exist.

We captured a network trace on the ISA server to troubleshoot this issue. The ISA server immediately reset the TCP connection once it received the DC's TCP ACK packet when it tried to establish the connection against the DC's 135 port.

According to the network trace, the ISA server may think the DC's reply packet used an invalid sequence number or acknowledgment number. If you use the live monitoring feature in ISA server to monitor this issue, you should find that the ISA server reports the error FWX_E_SEQ_ACK_MISMATCH. However, the sequence number and the acknowledgment number were correct based on the network trace. The problem should be still on the ISA server side.

After performing intensive research, the issue was caused by the NIC settings on the ISA server. We turned off the feature Receive Side Scaling on the Broadcom NIC and that resolved the issue.

We have received report for this issue occurred on the DELL PowerEdge 1950 server with Broadcom BCM5708c NetExtreme Gigabit NIC.

To turn of the feature Receive Side Scaling,

- a. Log on the ISA server. Click Start, click Run, type devmgmt.msc and press OK.
- b. Expand Network Adapters and double-click the NIC which connects the ISA server to the internal network.
- c. On the Advanced tab, find the feature Receive Side Scaling and turn it off. Click OK.

Note: When you click OK, the network connection may be interrupted

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temporarily.

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Regards,

Richard

"Shijaz Abdulla" wrote:

Should I apply ISA 2004 sp1 on this ISA 2006 as mentioned in the KB?

No. This is supported only for versions that is listed in the Applies To section of the article. Besides, I dont think ISA 2006 would let you install ISA2004 Sp1 over it ;)

I have not been able to find a fix addressing this, it would be a good idea to contact Microsoft PSS.

What are the consequences running the ISA 2006 with "RPC filter" disabled?
<http://www.microsoft.com/technet/isa/2000/proddocs/isafp1/rpcaboutfilter.msp?mfr=true>

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Articles: www.shijaz.com/isaserver

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"richard" wrote:

I have exactly the same problem as mentioned in this kb.:

<http://support.microsoft.com/kb/887222>

But this is an ISA 2006 on a new server with an Windows Server 2003 R2 sp1

OEM installation.

Logging on takes at least 5 min. This error shows in the system log:

Event Type: Error
Event Source: Userenv
Event Category: None
Event ID: 1053
Date: 11-01-2007
Time: 11:38:11

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User: NT AUTHORITY\SYSTEM

Computer: xxx

Description:

Windows cannot determine the user or computer name. (The RPC server is unavailable.).

Group Policy processing aborted.

For more information, see Help and Support Center at

<http://go.microsoft.com/fwlink/events.asp>.

When i disable the "RPC filter" application filter in ISA, everything is fine.

Amongst a lot of things (uninstall ISA, rejoin the Domain, install ISA again), I have tried to enable/disable "Enforce strict RPC compliance", but at no use. As long as the RPC filter is enabled, I am stuck!

Should I apply ISA 2004 sp1 on this ISA 2006 as mentioned in the KB?

What are the consequences running the ISA 2006 with "RPC filter" disabled?

The plan was that the ISA 2006 should replace an ISA 2000, as a back-end firewall handling VPN-connections, server publishing (Exchange 2003, Portal Services) and more.

Thanks in advance!

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Regards,

Richard