

Re: Slow Network Speed from 2008 Server

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 - *Date:* Sun, 23 Nov 2008 07:26:04 -0800
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Thanks for that

Fixed the problem. Actually, your reply focussed me into looking at the Network Adaptor properties which are a bit scary. None of your names showed up in my properties so I did some googling to see which option was the receive side scaling and did a search on Marvel Yukon and found a post relating to the flow control being set to disabled by default. As I have no idea about any of these, I tried this as it was easy to do. Disabled the adapter and re-enabled and the problem had gone.

So you really got me back on course there. I thought it was an O/S thing as it had worked fine on 2003 but I think that 2008 handles offloading differently and perhaps that was part of the issue. Marvel Yukon now have this on by default for Vista / 2008.

Many thanks

"Meinolf Weber" wrote:

Hello James,

Check out this one's step by step, on the 2008:

- Disable receive-side scaling
- Disable chimney offload state
- Disable receive window auto tuning
- Disable offloading in the network adapter properties
- Disable IPv6 in the network adapter

The steps are done one by one to see its result.

Best regards

Meinolf Weber

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Re: Slow Network Speed from 2008 Server

I have a server I recently upgraded from 2003 64bit to 2008 64 bit

Its a barebone system with
Intel P35/G33/G31 Chipset
Phoenix Technologies Bios
Intel Core Duo E6750 Processor
4GB RAM
Single Gigabit NIC – Generic Marvel Yukon 88E8056 Based Ethernet
Controller

I upgraded because I wanted to have better experience on 2008, to use the Virtualisation and also because I share the server on a KVM with two other machines and now use a wide screen display and there was no VGA driver that worked with 2003 64 bit to support it (there was a Vista 64bit one and that works fine)

I'm running AD on it as well as SQL Server 2005. Its primarily for testing etc but I run real services from it so its in a semi live environment so we can do real tests!

I did a clean install of 2008 Enterprise 64 bit and installed the core drivers – actually only the VGA was needed as 2008 recognised everything else. I ran all the MS upgrades and patches and added the roles of AD and migrated the domain. (I used a second PC to temporarily transfer the AD roles to then moved them back to the 2008 server. That all worked fine. I added DNS and DHCP and configured all and it all worked. Everything seemed fine but I didn't really notice or test network speeds. I then added HyperV and noticed after setting up a Virtual machine, that the DHCP didn't work. I discovered that HyperV can not use the same NIC as DHCP so I temporarily turned off the DHCP. (I will add a second NIC once the other issues are resolved)

Apart from that all seemed fine. Then I discovered really slow network transfers from the Server to the XP Workstations. I have no Vista PCs to test on as we are all retaining XP so it needs to work with XP. From XP to Server is fine. They are only on 100mbs so the throughput matches that. But file transfers from the 2008 Server to the XP machines is very slow. Like slightly under 10mbs. Or 30secs for a single 25MB file vs 3 secs the other way.

I have not added any AV to the server yet. I hate Symantec Endpoint. Its bloated rubbish and screwed up my 2003 server previously. Will probably put Symantec Corporate on when all is sorted but behind great gateway AV so not a huge problem at this stage. Nothing much else installed except core MS stuff inc SQL 2005 and IIS 7 roles.

I tried killing none crucial services, reinstalling NIC drivers, disabling the firewall. I removed the Virtual Lan from Hyper-V so its currently

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offline. No change.

I read that Vista had issues that were fixed in SP1 but 2008 should have

those fixes already applied. I haven't yet messed with the NIC driver settings as there are a bunch and I really have no idea where to start there

but realistically I shouldn't have to change them – or should I? I've run out

of things to try – still inbound is fast, outbound is slow. I had three IPs

on the NIC but tried removing all but one. I unchecked IP6 from the NIC

Bindings. No Change. Simple Gigabit switch. No Firewalls on internal subnet,

2008 Firewall disabled, no virtual LANs, no DHCP – only AD and DNS.

Its

really really frustrating. I'm pretty clued up on this stuff and have played

with 2008 a fair bit now but this one has me temporarily stymied.

Any clues would really help. Nothing on Google searches has revealed anything that helps. Would really appreciate some input here. Many thanks