

# NFS mount - block size issue. I/O copy ...



Thomas Koetzi... 11 posts since

Jan 27, 2005

Hi,

I mount a NFS share from Windows/Linux NFS Server fine. Copy files fails with **input/output error**, small files are ok.

Now I checked the mounts with "**df -k <nfs-share>**" and I get for both shares:

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
	128000000	0	128000000	0%	/vmfs

then I mounted the shares the following way, to the same NFS shares:

**service portmap start**

**service nfs start**

**mount -t nfs -o rw <nfs-server>:/mnt/<nfs-share> /vmfs/volumes/HDD-ID/NFS/**

Now I check this mount again with "**df -k <nfs-share>**" and I get:

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
<nfs-server>:/mnt/<nfs-share>	243737152	0	243737152	0%	/vmfs/volumes/HDD-ID/NFS

when I copy something to this mount, everything works fine and is fast!!!

1. Why mounts ESX the nfs share with those 1K blocks?
2. How can I mount nfs share manually but that they show up in the VI client?
3. What can I change so ESX always mounts with the right 1K-blocks and shows in the VI client?

Thx for any help.

Tags: nfs, windows, linux, input, output, block, mount



mcowger 2,078 posts since

Aug 22, 2007 1. **Re: NFS mount - block size issue. I/O copy error** Nov 13, 2008 2:41 PM

You aren't mounting the share the correct way - you dont mount it from within the COS using 'mount'. You need to setup a VMKernel port, then add a datastore from the GUI with the VI Client.

--M

--Matt

NFS mount - block size issue. I/O copy ...



[Thomas Koetzi...](#) 11 posts since

Jan 27, 2005 2. **Re: NFS mount - block size issue. I/O copy error** Nov 13, 2008 2:44 PM

in response to: [mcowger](#)

Thx for the quick answer.

You need to setup a VMKernel port, then add a datastore from the GUI with the VI Client. That is exactly what I did and then I get the mounts as described before. Only if I map them manually it works.

Thomas



[mcowger](#) 2,078 posts since

Aug 22, 2007 3. **Re: NFS mount - block size issue. I/O copy error** Nov 13, 2008 2:53 PM

in response to: [Thomas Koetzi...](#) Are you 100% sure, because doing a "df -k <nfs-share>" on a NFS mounted datastore that was done from the GUI wont actually work....

you would have to do a vdf -k.

--Matt



[Thomas Koetzi...](#) 11 posts since

Jan 27, 2005 4. **Re: NFS mount - block size issue. I/O copy error** Nov 13, 2008 3:01 PM

in response to: [mcowger](#)

Are you 100% sure, because doing a "df -k <nfs-share>" on a

NFS mounted datastore that was done from the GUI wont actually work....Yes I'am. As you wrote I created the VMKernel/Port and changed the Security Profile. After the I could mount NFS shares through VI Client fine but then I got the I/O copy errors etc.

I looked through the forums and found the "manuall" way of mounting and that works great but dosen't show up in the VI Client.

Nevertheless with "vdf -k" I get the same result as with "df -k" but still I can only say I have problems with the NFS mount through the VI Client

but not manually. So what can I do to make it work with the VI Client, or what's the problem?

Thomas



[Thomas Koetzi...](#) 11 posts since

Jan 27, 2005 5. **Re: NFS mount - block size issue. I/O copy error** Nov 14, 2008 7:41 AM

in response to: [Thomas Koetzi...](#) ...just to add, if I copy something to the NFS share mounted by the VI Client, then the max size of

a file will be 128000000 (same as the 1k block size).

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For me it looks like the NFS share is not mounted the right way.


Btw. moving files from the NFS share to the ESX Server is working fine.

Thomas



[rlund](#) 77 posts since

Jan 22, 2008 6. **Re: NFS mount - block size issue. I/O copy error** Jun 12, 2009 11:32 AM

 in response to: [Thomas Koetzi...](#)

Any update on this?

Roger Lund

My Blog:

<http://rogerlunditblog.blogspot.com/>