

3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Alen Nemet - 2011/10/12 06:02

Hello from Germany,
have some NEW HDD (3 TB) running on USB, formatted with NTFS.

How can i mount this on Clear OS

```
System hostname ****.poweredbyclear.com
Operating system CentOS Linux 5.4
Webmin version 1.570
Time on system Wed Oct 12 11:58:46 2011
Kernel and CPU Linux 2.6.18-194.8.1.v5 on i686
Processor information Intel(R) Celeron(R) CPU 2.40GHz, 1 cores
System uptime 2 days, 11 hours, 24 minutes
Running processes 128
CPU load averages 0.17 (1 min) 0.27 (5 mins) 0.17 (15 mins)
CPU usage 0% user, 1% kernel, 5% IO, 94% idle
Real memory 494.63 MB total, 200.95 MB used
Virtual memory 1 GB total, 72 kB used
Local disk space 450.20 GB total, 433.04 GB used
Package updates All installed packages are up to date
```

```
# ntfs-3g /dev/sda1 /home/anemet/usb1
ntfs-3g: Failed to access volume '/dev/sda1': Datei oder Verzeichnis nicht gefunden
```

ntfs-3g 2009.4.4 integrated FUSE 27 - Third Generation NTFS Driver

```
Copyright (C) 2005-2007 Yura Pakhuchiy
Copyright (C) 2006-2009 Szabolcs Szakacsits
Copyright (C) 2007-2009 Jean-Pierre Andre
Copyright (C) 2009 Erik Larsson
```

Usage: ntfs-3g]

```
Options: ro (read-only mount), remove_hiberfile, uid=, gid=,
         umask=, fmask=, dmask=, streams_interface=.
Please see the details in the manual (type: man ntfs-3g).
```

Example: ntfs-3g /dev/sda1 /mnt/windows

Ntfs-3g news, support and information: <http://ntfs-3g.org>

Can somebody help?
Regards

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Re: 3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Tim Burgess - 2011/10/12 06:15

Hi Alen, where is /dev/sda1? are you sure that's your drive because it claims it can't find it.

Look at the 'dmesg' log for details when you plugged your usb drive in...

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Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Alen Nemet - 2011/10/12 06:54

dmesg

```
usb 1-1: new high speed USB device using ehci_hcd and address 2
usb 1-1: configuration #1 chosen from 1 choice
Initializing USB Mass Storage driver...
scsi0 : SCSI emulation for USB Mass Storage devices
usb-storage: device found at 2
usb-storage: waiting for device to settle before scanning
usbcore: registered new driver usb-storage
USB Mass Storage support registered.
 Vendor: Hitachi Model: HDS5C3030ALA630 Rev:
  Type: Direct-Access          ANSI SCSI revision: 02
usb-storage: device scan complete
scsi 0:0:0:0: Attached scsi generic sg0 type 0
sda : very big device. try to use READ CAPACITY(16).
sda : READ CAPACITY(16) failed.
sda : status=0, message=00, host=5, driver=00
sda : use 0xffffffff as device size
SCSI device sda: 4294967296 512-byte hdwr sectors (2199023 MB)
sda: Write Protect is off
sda: Mode Sense: 28 00 00 00
sda: assuming drive cache: write through
sda : very big device. try to use READ CAPACITY(16).
sda : READ CAPACITY(16) failed.
sda : status=0, message=00, host=5, driver=00
sda : use 0xffffffff as device size
SCSI device sda: 4294967296 512-byte hdwr sectors (2199023 MB)
sda: Write Protect is off
sda: Mode Sense: 28 00 00 00
sda: assuming drive cache: write through
sda: unknown partition table
sd 0:0:0:0: Attached scsi disk sda
fuse init (API version 7.10)

#
# ls -l /dev/sda*
brw-r----- 1 root disk 8, 0 12. Okt 07:23 /dev/sda
```


#

Regards Alen

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Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Tim Burgess - 2011/10/12 07:27

So does your drive contain a valid partition table, and your NTFS partition sda1 exists on it?

Whats the output of 'fdisk -l /dev/sda'

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Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Alen Nemet - 2011/10/12 07:29

#

fdisk -l /dev/sda

WARNING: GPT (GUID Partition Table) detected on '/dev/sda'! The util fdisk doesn't support GPT. Use GNU Parted.

WARNING: The size of this disk is 2.2 TB (2199023255552 bytes).
DOS partition table format can not be used on drives for volumes
larger than 2.2 TB (2199023255040 bytes). Use parted(1) and GUID
partition table format (GPT).

Platte /dev/sda: 2199.0 GByte, 2199023255552 Byte
256 heads, 63 sectors/track, 266305 cylinders
Einheiten = Zylinder von 16128 x 512 = 8257536 Bytes

Gerät boot.	Anfang	Ende	Blöcke	Id	System
/dev/sda1	1	266306	2147483647+	ee	EFI GPT

Regards Alen

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Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Tim Burgess - 2011/10/12 07:49

OK so it uses a GPT partition table, there are some clues on the net for ntfs-3g and GPT partitions

Whats the output of:-
parted /dev/sda print

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Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g
Posted by Alen Nemet - 2011/10/12 07:51

```
#  
  
# parted /dev/sda print  
-bash: parted: command not found
```

Regards Alen

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Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g
Posted by Tim Burgess - 2011/10/12 07:57

D'oh...
yum install parted

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Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g
Posted by Alen Nemet - 2011/10/12 08:04

```
# parted /dev/sda print  
Backtrace has 8 calls on stack:  
8: /usr/lib/libparted-1.8.so.0(ped_assert+0x3b)  
7: /usr/lib/libparted-1.8.so.0  
6: /usr/lib/libparted-1.8.so.0(ped_disk_new+0xa3)  
5: parted  
4: parted(non_interactive_mode+0x7c)  
3: parted(main+0x58)  
2: /lib/libc.so.6(__libc_start_main+0xdc)  
1: parted
```

You found a bug in GNU Parted! Here's what you have to do:

Don't panic! The bug has most likely not affected any of your data.
Help us to fix this bug by doing the following:

Check whether the bug has already been fixed by checking the last version of GNU Parted that you can find at:

<http://ftp.gnu.org/gnu/parted/>

Please check this version prior to bug reporting.

If this has not been fixed yet or if you don't know how to check, please visit the GNU Parted website:

<http://www.gnu.org/software/parted>

for further information.

Your report should contain the version of this release (1.8.1) along with the error message below, the output of

parted DEVICE unit co print unit s print

and additional information about your setup you consider important.

Assertion ((PedSector) PED_LE64_TO_CPU (gpt->AlternateLBA) dev->length - 1) at gpt.c:815 in function gpt_read() failed.

Ignorieren/Ignore/Abbrechen/Cancel?

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Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Tim Burgess - 2011/10/12 08:21

Ugh... it's really not your day!. I'm just trying to find out what your partition should be, as it's not recognised by the system.

It appears parted doesn't like the size of your disk either!

This link doesnt provide good reading...and suggests there is some automagic at the USB interface level to convert sector sizes, it's possible that your drive may just be too big for the linux tools / system found in ClearOS5.2, without perhaps a kernel upgrade? or newer version, 6.1 perhaps?
<http://ubuntuforums.org/showthread.php?t=1536933>

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Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Alen Nemet - 2011/10/12 08:27

can i update to 6.1 Alpha? Have no x64 CPU ...

Regards Alen

Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Tim Burgess - 2011/10/12 08:39

There is a 32bit version of CleaOS 6.1 Enterprise Beta1...but it's only beta and doesn't have much functionality yet!

You might want to consider testing a newer kernel, as EFI / GPT support maybe better

http://www.clearfoundation.com/component/option,com_kunena/Itemid,232/catid,40/func,view/id,8484/

Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Louis - 2011/11/07 16:22

i have given up using the GPT/EFI even with the updated kernel that tim provides the parted utility is too old to use so mounting a 3TB in clearOs is impossible until that is fixed. i am now just going to mount it using ntfs-3g which i have done by updating the fuse drivers the only thing is i cannot mount it by it uuid every-time i try i get a cannot find error so i have to use the partition label which is /dev/sde1 the bad thing about doing that is the system may not give it that label upon reboot any ideas on how to for this?

Re:3TB USB HDD, Format NTFS, GPT - mount with ntfs-3g

Posted by Alen Nemet - 2011/11/10 09:28

Problem solved!!!

On the GPT/EFI HDD we have 2 Partitions

Example!

fdisk -l

WARNING: The size of this disk is 3.0 TB (3000592982016 bytes).
DOS partition table format can not be used on drives for volumes larger than 2.2 TB (2199023255040 bytes). Use parted(1) and GUID partition table format (GPT).

Platte /dev/sdf: 3000.5 GByte, 3000592982016 Byte
256 heads, 63 sectors/track, 363376 cylinders
Einheiten = Zylinder von 16128 x 512 = 8257536 Bytes

Gerät	boot.	Anfang	Ende	Blöcke	Id	System
/dev/sdf1		1	266306	2147483647+	ee	EFI GPT

WARNING: GPT (GUID Partition Table) detected on '/dev/sdf'! The util fdisk doesn't support GPT. Use GNU Parted.

!!! there is also an /dev/sdf2 but not showing !!!

WORKING = mount -t ntfs-3g /dev/sdf2 /home/"mountpoint"

Regards

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