

Re: Command To Allow Safe Removal of Hard Drive?

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- *From:* "Will" <westes-usc@xxxxxxxxxxxxxxxx>
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Edwin, before I go out and do some homework here to try to explain my results more precisely, could you point me to a good overview document that shows how the Windows storage driver stack looks and works?

Thanks for the distinction between volume and disk, and seeing an overview that helps me clear that terminology would help me make my points clearer.

—
Will

"Edwin vMierlo [MVP]" <EdwinvMierlo@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:%23Q5xR6TdIHA.4588@xxxxxxxxxxxxxxxxxxxxxxxx

Right, but we are only using hotswap SCSI and SAS, drives all mounted in hotswap trays. So electrical disconnect is not the issue. Moreover

the

Symantec commands I mentioned would let you power off a disk device that

is

not hotswappable.

No, it just prepares the drivers from Symantec for device removal, this might or might not be OK for hot-swapping. The Symantec drivers are upperlayered drivers in the storage IO stack, and not disk device class drivers, you still need a hot-swap functionality in your class driver. Symantec are probably a "volume" device drivers, not a "disk" device drivers.

2) ensure your software (e.g. drivers) supports "hot-swap"

No, I think you are missing the point. Veritas / Symantec

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implemented

a

low level

actually there are not that low level at all, depending if you are used looking at storage stacks, and what angle you approach this stack.

driver that flushes all information to the disk,

only partly true, it flushes to the filesystem and volume, which

ultimately

ends up on a disk, but disk is a different device then a volume device.

prepares it for
power off,

I would like to see that claim being backed up with some documentation please ?

and then stops the OS from writing anything else to it from the point that the disk is "detached".

not disk, you mean volume

The very nice thing about that is it allows you to power off even drives that are NOT hot swappable while the

OS

runs hot.

Nice claim, any documentation about this... now you use the term "drives", with that do you mean disks or do you mean volumes, as "drives" to me is a mounted "NTFS volume" represented by a "letter", and to be honest it would be better not to use the term "drives".

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Of course reacquiring a device later that is not designed for hot reconnection might or might not work and would be hit and miss. Certainly it works beautifully with SCSI and SAS.

I think you are messing up your terminology big time, and confusing what
the

driver stack looks like.

It could be that you are right, and in that case I am really interested to see the documentation on that, and will stand corrected.

For now, I am signing off
Rgds,
Edwin.