

## Re: RAID 1 versus RAID 5

**Source:**

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**From:** Fred Blum (*h.f.blum\_at\_marketconnectnospam.nl*)

**Date:** 12/02/04

Date: Thu, 2 Dec 2004 09:25:45 +0100

Thanks,

had not thought of that and you're right. My RIAD controller doesn't allow a dynamic resizing on W2K.

IMHO opinion this thread question/answer should be in the FAQ.

Fred

"Joshua Bolton" <JoshuaBolton@discussions.microsoft.com> wrote in message news:5AC99C16-73A5-4B52-98B6-113D9E26E73D@microsoft.com...

> *Kevin I would point out that this configuration precludes any disk space  
> being added to your system. This is why the standard has been mirror  
> [raid1]*

> *the OS and stripe [raid 5/0+1/10] the data.*

>

> *Here is the reason why. It is common to need to add disk space to the  
> data*

> *partition/drive. Most raid controllers don't allow dynamic upgrades in  
> the*

> *raid array. So to add more disk space with your present configuration you*

> *have to wipe the existing array and recreate the raid5 array with the*

> *additional disk so you have more space. This usually means you have to*

> *repartition the way you want, reinstall the OS and backup software and*

> *restore from a backup. A long painful process.*

>

> *Lets say you have a raid controller that can add the disk to the array*

> *dynamicly. Great. Now you have system, apps and data partitions. How*

> *are*

> *you going to add the "unallocated space" to the data partition? You only*

> *have two options. The best being buy a server version of Partition Magic*

> *and*

> *use it to add the space to data. Or create a volume set between the data*

> *partition and the unallocated space [very bad choice since I have seen*

> *chkdsk*

> */f destroy a volume set].*

>

> Now if you had mirrored the OS and stripped the data [in your case apps  
> and  
> data] it is a simple matter of backup apps and data, reinit the array with  
> the added disk, use disk manager to partition as you desire and format the  
> partitions. Then restore from backup. I have done this in 4 hours on a  
> Sat.  
> [depending on how long it took to init the array and restore data].  
>  
> Lets say you wanted to make the OS drive space larger. You can't mirror  
> to  
> a larger drive. But you can break the mirror, use ghost to ghost from  
> small  
> driver to larger and then with another larger drive in the system mirror  
> the  
> two. Again a fairly straight forward operation which you can not do if  
> you  
> have all three partitions on a single raid5 array. This is a two hour or  
> less operation.  
>  
> Just something to think about.  
>  
>  
>  
> "Kevin Weilbacher" wrote:  
>  
>> Fred, I know way back when it was recommended not to use raid-5 for your  
>> system partition. But I don't believe that is applicable any longer. I  
>> know  
>> I use hardware Raid-5 for all my SBS servers without any problems. I take  
>> my  
>> 3 or 4 drives, set them up in Raid-5, and partition them into 3 sections:  
>> system, apps, data.  
>