

— REDiSAFE™ NEWSLETTER —



RAID 5 the reason for RAID 5

In computing, a redundant array of independent disks, also known as redundant array of inexpensive disks (commonly abbreviated RAID) is a system which uses multiple hard drives to share or replicate data among the drives, depending on the version chosen.

REDiSAFE uses one of the most popular RAID levels, RAID 5, which stripes both data and parity information across three or more drives. RAID 5 has a greater data integrity, fault-tolerance, throughput, or capacity compared to single drives. RAID 5 exchanges the dedicated parity drive for a distributed parity algorithm, writing data and parity blocks across all the drives in the array. This removes the "bottleneck" that the dedicated parity drive represents, improving write performance and allowing somewhat better parallelism in a multiple-transaction environment, though the

necessary in dealing while the parity continues to bog down writes.

Fault tolerance is maintained by ensuring that the parity information for any given block of data is placed on a drive separate from those used to store the data itself. The performance of a RAID 5 array can be "adjusted" by trying different stripe sizes until one is found that is well-matched to the application being used. RAID 5 is seen by REDiSAFE as the ideal combination of good performance, good fault tolerance and high capacity and storage efficiency. It is best suited for transaction processing and is often used for "general purpose" service, as well as for relational database applications, enterprise resource planning and other business systems.

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Text by Justin Foo

Frequently Asked Questions

Q1: How does RAID 5 actually help me if REDiSAFE server fails?

All our REDiSAFE guardian products comes with RAID 5, except W30R model which is RAID 1 (mirroring). If your data is stored without RAID, when your hard disk failed, all the data stored in that hard disk will be lost. With RAID technology, redundancy is build in to protect your data, even when 1 hard disk failed, the entire array will still be online.

Q2: Will I be indicated if any of my harddisk in my REDiSAFE server is malfunctioning?

Yes, an email will be send to the server administrator.

When you are using RAID 5, you will be inform but if you are using a server without RAID, there will not be any form of indication and you will not know if your server is down.