

maxRAID: Revolutionizing Database Storage

Efficient. Fast. Long-lasting Storage for Modern Databases.

This evaluation compares a **200TB** database storage system using 30.72TB drives, assessing maxRAID against RAID-10 and RAID-5 solutions, including MD RAID, Xinnor, and GRAID. RAID-10 requires 14 drives, while RAID-5 needs 8. With maxRAID's advanced compression—achieving 50% in typical database environments—you get the same capacity using just 6 drives, including parity. maxRAID increases storage efficiency, reduces wear, and ensures consistent, high performance.

| | RAID-10 | RAID-5 | maxRAID-5 |
|-------------------------|----------|----------|-----------|
| Performance | Good | Poor | Good |
| Drives (30.72TB) | 14 | 8 | 6 |
| Drive Cost ¹ | \$62,986 | \$35,592 | \$26,694 |



Over five years, SSD replacement costs in traditional RAID setups grow significantly due to drive wear. maxRAID dramatically extends SSD life, leading to substantial long-term savings.

\$70,000 in 5 years with maxRAID

| RAID-10 | RAID-5 | maxRAID-5 | |
|----------|------------|-----------|------------------------------------|
| 3 years | 1.75 years | 8 years | SSD Life |
| \$62,986 | \$71,984 | \$0 | 5-year SSD Repl. Cost ¹ |



Fewer drives, more capacity.



Reduced Day-1 and long-term costs.



Extend SSD lifespan with peak performance

How does maxRAID work

maxRAID revolutionizes storage with advanced Host FTL architecture. It optimizes data flow, converting random writes into efficient, sequential patterns, compressing data in real-time, and reducing SSD wear. The result? Lower latency, more usable capacity, and sustained performance that outlasts traditional RAID systems.

1: Based on Kioxia 1 DWPD 30TB SSD at \$4,449. Drive costs only; excludes host system and software licenses.

maxRAID delivers lower costs, sustained performance, and longer-lasting storage

+1-888-473-7866 WildFire Storage wildfire-storage.com