

RAID Level Comparison

Features	RAID 0	RAID 1	RAID 1E	RAID 5	RAID 5EE	RAID 6	RAID 10	RAID 50	RAID 60
Minimum # Drives	2	2	3	3	4	4	4	6	8
Data Protection	No Protection	Single-drive failure	Single-drive failure	Single-drive failure	Single-drive failure	Two-drive failure	Up to one disk failure in each sub-array	Up to one disk failure in each sub-array	Up to two disk failures in each sub-array
Read Performance	High	High	High	High	High	High	High	High	High
Write Performance	High	Medium	Medium	Low	Low	Low	Medium	Medium	Medium
Read Performance (degraded)	N/A	Medium	High	Low	Low	Low	High	Medium	Medium
Write Performance (degraded)	N/A	High	High	Low	Low	Low	High	Medium	Low
Capacity Utilization	100%	50%	50%	67% - 94%	50% - 88%	50% - 88%	50%	67% - 94%	50% - 88%
Typical Applications	High end workstations, data logging, real-time rendering, very transitory data	Operating system, transaction databases	Operating system, transaction databases	Data warehousing, web serving, archiving	Data warehousing, web serving, archiving	Data archive, backup to disk, high availability solutions, servers with large capacity requirements	Fast databases, application servers	Large databases, file servers, application servers	Data archive, backup to disk, high availability solutions, servers with large capacity requirements