

Filesystems

Linux Filesystem Comparison



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Filesystem	EXT4	XFS	Btrfs	ZFS	ReiserFS
Creation Timestamp	✗	✓	✓	✓	✗
Last Read Timestamp	✓	✓	✓	✓	✓
Access Control List	✓	✓	✓	✓	✓
Metadata Checksum	✓	✓	✓	✓	✗
Extended Attributes	✓	✓	✓	✓	✓
Hard/Soft Links	✓	✓	✓	✓	✓
File Change Log	✗	✓	✗	✗	✗
Snapshot Support	✗	✗	✓	✓	✗
Encryption	✓	✗	✗	✓	✗
Deduplication	✗	✓	✓	✓	✗
Data Checksum	✗	✗	✓	✓	✗
Persistent Cache	✗	✗	✗	✓	✗
Compression	✗	✗	✓	✓	✗
Online Grow	✓	✓	✓	✓	✓
Offline Shrink	✓	✗	✓	✗	✓
Online Shrink	✗	✗	✓	✗	✗
Add/Remove Disks	✗	✗	✓	✓	✗



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