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RAID Level 50: Mirrorin Levels	g and Striping Across M	ultiple RAID CEH
 It is more fault tolerant than RAID ! A minimum of 6 drives are required more than one drive fails in a segm 	striping and the distributed parity of RA 5 but uses twice the parity overhead d for setup. A drive from each segment cent, the array will stop functioning and writes compared to RAID 5 and the	an fail and the array will recover. If
	RAID 5+0 RAID 0	RADS
A1 A2 P1 P, C, C1 P1 D2 D160 D361		A4 A• B4 C5 C4 D4 Disk 5
Selecting an Approp		d
Select the backup method accordi	ing the organization's requirements and	based on its cost and ability
Hot Backup (Online) Backup the data when the application, database or system is running and available to users	Cold Backup (Offline) Backup the data when the application, database or system is not running (shutdown) and is not available to	Warm Backup (Nearline) A combination of both a hot and cold backup
Used when service level down time is	users Used when a service level down time is allowed, and a full backup is	Advantages: Less expensive than a hot backup Switching over the data backup takes
not allowed	required	
Advantage: Immediate data backup switch over is possible Disadvantage:	required Advantage: Least expensive Disadvantage: Switching over the data backup	less time compared to a cold backup but more time than a hot backup Disadvantage:
Advantage: Immediate data backup switch over is possible	Advantage: Least expensive Disadvantage: Switching over the data backup requires additional time	less time compared to a cold backup but more time than a hot backup Disadvantage: But Less accessible than hot backup
Advantage: Immediate data backup switch over is possible Disadvantage:	Advantage: Least expensive Disadvantage: Switching over the data backup requires additional time	less time compared to a cold backup but more time than a hot backup Disadvantage:
Advantage: Immediate data backup switch over is possible Disadvantage: Very expensive	Advantage: Least expensive Disadvantage: Switching over the data backup requires additional time	less time compared to a cold backup but more time than a hot backup Disadvantage: But Less accessible than hot backup
Advantage: Immediate data backup switch over is possible Disadvantage: Very expensive	Advantage: Least expensive Disadvantage: Switching over the data backup requires additional time	less time compared to a cold backup but more time than a hot backup Disadvantage: But Less accessible than hot backup

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Choosing the Backup Location



Onsite Data Backup

 Only storing backup data at onsite data storage

Advantages:

- Onsite backup data can be easily accessed and restored
- Less expensive

Disadvantage:

Risk of data loss risk is greater



Offsite Data Backup

 Storing backup data in remote locations in fire-proof, indestructible safes

Advantage:

 Data is secured from physical security threats such as fire or floods

Disadvantage:

 Problems with a regular data backup schedule

Cloud Data Backup

 Storing backup data on storage provided by an online backup provider

Advantages:

- The data is encrypted and free from physical security threats
- Data can be freely accessed

Disadvantages:

- No direct control of the backup
 data
- More time needed for backup

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Data Recovery



- Data recovery is a process for the recovery of data that may have been accidentally or intentionally deleted or corrupted
- Deleted items include files, folders, and partitions from electronic storage media (hard drives, removable media, optical devices, and other storage media)
- The majority of lost data is recoverable. However, there are situations where the damage to the data is permanent and irreversible
- When attempting to recover data from a target, use a variety of data recovery tools

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Notes:

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