Types of backup

There are four different vocational scenarios, each representing a specific backup type

Identify which backup method: **full, incremental, differential, or mirror** is most suitable for each scenario. Try to justify your decision.

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| Industry scenario | Chosen backup type |
| Kai is working on a major website development project for their client in the UK. They have spent several weeks creating and editing numerous files, including graphics, videos, and documents. Kai has plenty of unused storage and would like the data to be quickly restored in case of loss. They work on the project every day and make changes regularly. The devices are not used in the evenings or overnight. | A complete copy of all the project files is required and can be done in the evenings or overnight. The most appropriate backup method would be a full backup. |
| Avery is a digital artist who frequently updates their portfolio of artwork. They have a large collection of high-resolution image files. Avery works on files at any time of day or evening and does not want their system resources to be used for creating a backup while they are working. | Avery wants to strike a balance between backup time and restore time while ensuring the ability to recover the most recent work. They should use a differential backup. |
| Jordan is a software developer working on an application. Every day, Jordan adds new code and makes changes to existing code. They want to back up only the files that have been modified since the last backup (regardless of type) to save time and storage space. | Jordan wants to back up only the modified files to save time and storage space. The most suitable backup method would be an incremental backup. |
| Alex runs a small web development business and hosts multiple client websites. Alex wants to have real-time or near real-time replication of his web server to ensure quick recovery in case of any failures. They also want to make sure that the replicated data is stored in a separate location. | For Alex's requirement of real-time or near real-time replication of their web server with data stored in a separate location, the best backup method would be a mirror backup / mirrored system / mirror image. |

