TYPES OF CLOUD STORAGE

	Direct Attached	File Storage	Block Storage	Object Storage
Features	 It is attached directly to a computer without network usage. In SSD or HDD 	 Data is stored in files with extensions according to the type of the file. Hierarchical structure Accessible with file name and path 	 Data is divided into blocks with unique identifiers. Blocks can be stored in different OSs. 	 Objects with the identifier, data, and metadata API is used to access objects
+	FastestEasy setup (plug & play)	 Easy to access if the file system is relatively small. Familiar to users Simple interface Easy to set access rights 	 Easy to modify unlike object storage Faster than file and object storage 	 Easy to retrieve data using metadata Purchase only for the storage you need unlike the file storage Good for unstructured data
-	 Only one person at a time can use the data. Data is not sharable. 	 Challenging to manage when the number of files is large Expensive (extra hardware is needed for storage) 	 Hard to search if the blocks have large volumes No metadata 	 No locks unlike file and block storage Slowest among the storage types You cannot change the object after it is created
Use Cases		ArchivingStorage requiring data protection	DatabasesBusiness applications for being reliable and fast	

Reference

https://www.ibm.com/cloud/blog/object-vs-file-vs-block-storage https://www.backblaze.com/blog/object-file-block-storage-guide/

Lecture 2 Slides