AUTHORIZATION

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Authorization and authentication are often confused or used interchangeably but the truth is there is a very distinct difference between the both of them. Authorization can be described as the process of confirming or verifying a person's access to a resource whilst authentication is the process of verifying said identity of the user or entity. For example, in lab-2 we can see that a user can log in with valid username and password (Authentication) but authorization is what decides if they can create, delete or view documents or information. One common way to authorize is Role-based Access Control (RBAC) where users are assigned roles such as "viewer" or "administrator" and each role grants certain permissions. Another example is Access Control Lists (ACLs) which acts like a guest list at an exclusive club where only those on the list are allowed in the doors. Then there is the principle of least privilege which is when a user is given the minimum levels of access or permissions to perform their jobs or tasks. Strong authorization is essential when protecting against malicious actors and reduces harm by tightly controlled permissions.