Protection

File systems implement a protection system

- Who can access a file
- How they can access it
- → A protection system dictates whether a given action performed by a given subject on a given object should be allowed
 - You can read and/or write your files, but others cannot
 - You can read "/etc/motd", but you cannot write it

Representing Protection

Access Control Lists (ACL)

For each object, maintain a list of subjects and their permitted actions

Capabilities

For each subject, maintain a list of objects and their permitted actions

