

Access Control List (ACL) Project Frequently Asked Questions

These are some general questions that may arise, while you are doing the third project on ACL. This FAQ section will help to think about what are access control lists, how do you implement an ACL, why are they said to be so crucial etc. We have listed only some of the questions, which will help you to think about the whole project and the issues you may come across.

1. What do you mean by ACL programs?
2. What are the common ACL programs that have been implemented?
3. What are the different types of Access Control Lists? Can you elaborate on both the Mandatory Access Control (MAC) and Discretionary Access Control (DAC)
4. What is the level of security that ACL's offer? What are the potential problems that can arise or the extent of damage these programs can cause?
5. Why do we need to manage an access control list for a file system object? Can we use ACL to extend the normal permissions (owner, group, others) to a per user principal basis? How do we do it, please elaborate?
6. What are the common problems that we need to take care, while constructing the ACL?
7. What do you mean by a protection matrix?
8. What level of file system modification is needed for constructing an Access Control List?
9. Where do we store the ACL?
10. Can we use the unused I-node entry for storing the ACL? Please explain the difficulty of expanding the I-node and storing the entry?
11. How do we define the ACL? Should it be user specific?
12. Has the ACL been implemented in Minix? Please explain?
13. Please give some hints and steps as to how we can construct ACL?