

Capability List Project Frequently Asked Questions

These are some general questions that may arise, while you are doing the third project on Capability List. This FAQ section will help to think about what are capability lists, how do you implement a well-defined capability list, 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 Capability List?
2. Do we have any examples of working Capability list implementation in Minix?
3. What are the different ways by which capability list has been implemented?
4. How do you protect a capability list from user tampering? What are the different ways in which the capability list can be protected
5. What is the level of security that capability lists offer? What are the potential problems that can arise or the extent of damage these programs can cause?
6. What are the 3 basic fields of importance while constructing a capability list?
7. What are the common problems that we need to take care, while constructing the Capability List?
8. What do you mean by a protection matrix? What is difference between Capability list and Access Control List?
9. Apart from the normal UNIX permissions like read, write and execute, do capability list have possess any other generic rights?
10. Where do we store the Capability List?
11. Can we use the process table for storing the capability list? Please explain the level of difficulty involved? Will the program crash if we try to allocate something to the process table?
12. How do we define a set of capabilities?
13. Has the capability list been implemented in Minix? Please explain?
14. Are there any sample capability programs, which we can execute and learn?
15. Please give some hints and steps as to how we can construct a capability list?