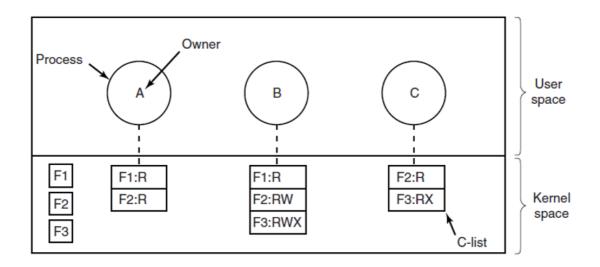
W8D1

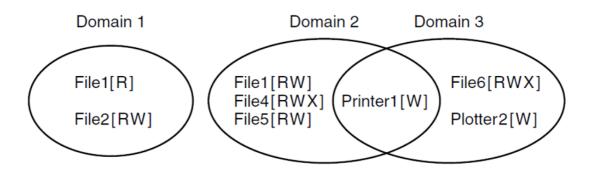
The Security Environment Threats

Confidentiality, Integrity, Availability

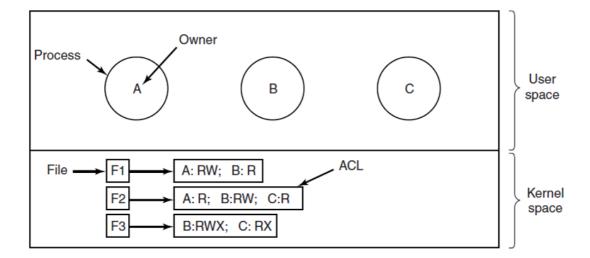
Capabilities



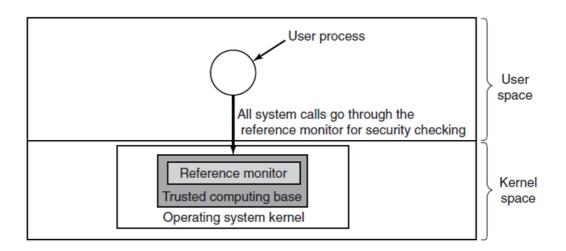
Protection Domains



Access Control Lists



Trusted Computing Base



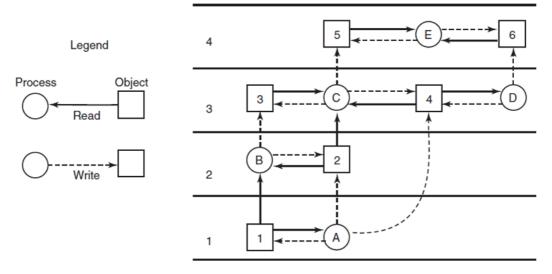
Multilevel Security and Bell-LaPadula Model

Bell-LaPadula Model rules for information flow:

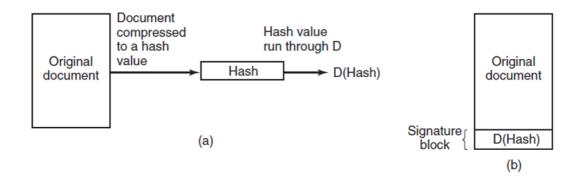
- The simple security property

 Process running at security level k can read only objects at its level or lower
- The * property

 Process running at security level k can write only objects at its level or higher



Digital Signatures



Authentication

Methods of authenticating users when they attempt to log in based on one of three general principles:

- Something the user knows.
- Something the user has.
- Something the user is.

Buffer Overflow Attacks

