Outline for October 4, 2023

Reading: text, §4.4, 5.1–5.2.2, 5.3, A

Assignments: Homework 1, due October 9; Project teams, question, due Oct 11

1. Types of Access Control
   (a) Discretionary Access Control (DAC)
   (b) Mandatory Access Control (MAC)
   (c) Originator Controlled Access Control (ORCON)

2. Bell-LaPadula Model with levels only
   (a) Security levels
   (b) Simple security property
   (c) *-property
   (d) Discretionary security property
   (e) Simplified version of the Basic Security Theorem

3. Lattices

4. Full Bell-LaPadula Model
   (a) Add in compartments
   (b) dom relation
   (c) BLP as lattice structure
   (d) Simple security property
   (e) *-Property
   (f) Discretionary security property
   (g) Basic Security Theorem

5. Range of levels

6. Example: Trusted Solaris