

## February 7, 2023 Outline

**Reading:** *text*, §8.4–8.5, 9.1–9.2

**Assignments:** Homework #2, due February 7  
Project Progress Report, due February 14

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**Note: There will be no class on February 9, 2023 (that's next Thursday)**

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1. Role-based Access Control (RBAC)
  - (a) Definition of role
  - (b) Partitioning as job function
  - (c) Axioms
  - (d) Containment and other uses
  - (e)  $RBAC_0$ ,  $RBAC_1$ ,  $RBAC_2$ ,  $RBAC_3$
2. Traducement
  - (a) Problem of recordation
  - (b) Requirements of solution
  - (c) Ideas, entities, and rules
  - (d) Proposition and theorems
  - (e) Naming
  - (f) Validation of model
  - (g) Consequences
    - i. Practice and use
    - ii. Assumptions
3. Break-the-glass policies
4. Problem with instantiation of Bell-LaPadula Model
  - (a) Covert channel example: what is “writing”?
  - (b) Composition of lattices
  - (c) Principles of autonomy and security
5. Deterministic noninterference
  - (a) Model of system
  - (b) Example
  - (c) Relationship of output to states
  - (d) Projections and purge functions