

February 15, 2019 Outline

Reading: *text*, §8; paper [WB04]

Assignments: Project Progress Report, due February 15, 2019
Homework 3, due February 22, 2019

1. Clinical Information System Security model
 - a. Intended for medical records; goals are confidentiality, authentication of annotators, and integrity
 - b. Patients, personal health information, clinician
 - c. Assumptions and origin of principles
 - d. Access principles
 - e. Creation principle
 - f. Deletion principle
 - g. Confinement principle
 - h. Aggregation principle
 - i. Enforcement principle
 - j. Comparison to Bell-LaPadula: lattice structure but different focus
 - k. Comparison to Clark-Wilson: specialization
2. ORCON
 - a. Originator controls distribution
 - b. DAC, MAC inadequate
 - c. Solution is combination
3. Role-based Access Control (RBAC)
 - a. Definition of role
 - b. Partitioning as job function
 - c. Axioms
 - d. Containment and other uses
 - e. RBAC₀, RBAC₁, RBAC₂, RBAC₃