

Outline for September 26, 2021

Reading: *text*, §4.3–4.4, 2.1–2.2, 5.1

Assignments: Homework 1, due October 5; Project selection, due Oct 7

1. Types of Policies
 - (a) Military/government vs. confidentiality
 - (b) Commercial vs. integrity
2. Access Control Matrix
 - (a) Commands, nesting, and conditions
 - i. **create subject**
 - ii. **create object**
 - iii. **destroy subject**
 - iv. **destroy object**
 - v. **enter r into $A[s, o]$**
 - vi. **delete r from $A[s, o]$**
 - (b) Copy flag, own rights
 - (c) Principle of attenuation of privilege
3. Undecidability result
4. Goals of confidentiality policies
5. 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