

Lecture 2 Outline

April 4, 2018

Reading: *text*, §2, 3.1–3.2

Assignments: Homework 1, due on Apr. 11, 2018 at 11:59pm

1. Greetings and felicitations!
2. Access Control Matrix
 - a. Subjects, objects, and rights
 - b. Primitive commands
 - c. Commands and conditions: *create•file*, various flavors of *grant•right* to show conditions and nested commands
3. Decidability of security
 - a. Notion of leakage in terms of ACM
 - b. Determining security of a generic system with generic rights and mono-operational commands is decidable
 - c. Determining security of a generic system with generic rights is undecidable (HRU result)
 - d. Meaning: can't derive a generic algorithm; must look at (sets of) individual case