## February 5, 2021 Outline

**Reading:** *text*, §7.4, 8.1–8.2 **Assignments:** Homework #2, due February 5 Project progress report, due February 12

## Module 26

- 1. Countermeasures to network flooding
  - (a) Manipulate opening of connection
  - (b) Control which packets get through, or the rate at which they get through
- 2. Amplification attacks

## Module 27

- 3. Chinese Wall Policy
  - (a) Low-level entities are objects; all objects concerning the same corporation form a CD (company dataset); CDs whose corporations are in competition are grouped into COIs (Conflict of Interest classes)
  - (b) Intuitive goal: keep one subject from reading different CDs in the same COI, or reading one CD and writing to another in same COI
  - (c) Simple Security Property: Read access granted if the object:
    - i. is in the same CD as an object already accessed by the subject; or
    - ii. is in a CD in an entirely different COI.
  - (d) Theorems:
    - i. Once a subject has accessed an object, only other objects in that CD are available within that COI;
    - ii. Subject has access to at most 1 dataset in each COI class
  - (e) Exceptions: sanitized information
  - (f) \*-Property: Write access is permitted only if:
    - i. Read access is permitted by the simple security property; and
    - ii. No object in a different CD in that COI can be read, unless it contains sanitized information
  - (g) Key result: information can only flow within a CD or from sanitized information