

# Lecture 19 Outline

November 2, 2016

**Reading:** *text*, 26

**Assignments:** Homework 3, due Nov. 8 (**changed**); Lab 3, due Nov. 8 (**changed**)

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1. Firewalls
  - a. Why use them?
  - b. Packet-level or filtering firewalls
  - c. Application layer or proxy firewalls
2. Network organization
  - a. Inside/outside
  - b. Inside/DMZ/outside
  - c. How email and web services (and others) are handled
3. Denial of service attacks
  - a. SYN cookies
  - b. Adaptive time-out
4. Domain Name Service
  - a. Weak authentication
  - b. Reverse name lookup
  - c. Attacks
  - d. DNSSEC