

March 8, 2021 Outline

Reading: *text*, §18.2–18.3

Assignments: Homework #5, due March 12
Completed Project, due March 12

Module 50

1. Isolation: program modification
 - (a) Compiling
 - (b) Loading

Module 51

2. Covert channels
 - (a) Storage vs. timing
 - (b) Noise vs. noiseless
 - (c) Existence
 - (d) Bandwidth

Module 52

3. Covert channel detection
 - (a) Shared Resource Matrix Model
 - (b) Information flow analysis
 - (c) Covert flow trees
4. Shared resource matrix methodology
 - (a) Identify shared resources, attributes
 - (b) Operations accessing those attributes
 - (c) Building the matrix
 - (d) Issues about the methodology
5. Information flow analysis
 - (a) Direct, indirect flows