

Outline for January 30, 2006

Reading: text, §23.4, 2

1. Greetings and felicitations!
 - a. Puzzle of the day
2. NRL
 - a. Goal: Find out how vulnerabilities enter the system, when they enter the system, and where they are
 - b. Axis 1: inadvertent (RISOS classes) vs. intentional (malicious/nonmalicious)
 - c. Axis 2: time of introduction (development, maintenance, operation)
 - d. Axis 3: location (hardware, software: OS, support utilities, applications)
3. Aslam
 - a. Goal: Treat vulnerabilities as faults
 - b. Coding faults: introduced during software development
 - i. Synchronization errors
 - ii. Validation errors
 - c. Emergent faults: introduced by incorrect initialization, use, or application
 - i. Configuration errors
 - ii. Environment faults
 - d. Introduced decision procedure to classify vulnerabilities in exactly one category
4. Access Control Matrix
 - a. Subjects, objects, and rights
 - b. Primitive commands: create subject/object, enter right, delete right, destroy subject/object