Week 2
Security Policy Example: MAC

School of Information Studies
SYRACUSE UNIVERSITY

Security Policy Examples

- MAC (mandatory access control)
  - Strict rules define who can access certain resources
  - Even the owners of the resources cannot change the rules
  - MAC policy is expressed in terms of security labels attached to subjects and objects
  - Tranquility
    - Once assigned, the labels cannot be changed arbitrarily
  - Limits the confidentiality violation that a Trojan horse can cause
    - We will learn more details about this in the week of Security Models

Security Policy Examples

- MAC:

  - Much more complicated to implement, configure, and maintain than DAC

  - Detailed knowledge of the behavior of every process and application is required

  - In general the more restrictive the security policy is, the less convenient the system becomes for its users

Other Security Policy Examples

- Originator controlled policy (ORCON)
- Chinese wall policy (Brewer and Nash, 1989)
- Role-based access policy (Sandhu, et.al.)