

Outline for December 1, 2005

Reading: Kenneth Olthoff, "Sysadmin Admonishments" (2002).

1. Assurance
 - a. Trustworthy entities
 - b. Security assurance
 - c. Trusted system
 - d. Why assurance is needed
 - e. Requirements
 - f. Assurance and software life cycle
2. Life cycle: Waterfall Model
 - a. Requirements definition and analysis
 - b. System and software design (system design, program design)
 - c. Implementation and unit testing
 - d. Integration and system testing
 - e. Operation and maintenance
3. Evaluation Criteria
 - a. Trusted Computer System Evaluation Criteria (Orange Book)
 - b. Common Criteria
 - c. Best practices
4. Example of Best Practices
 - a. CIS FreeBSD Benchmark
 - b. Environment and assumptions