

Computer Science 427/527 Computer Security

Homework # 7 – Initial Report

Assigned: 4/02/07

Due: 4/09/07

Points: 35

Term Project

Overview: All students will complete a research paper or programming project on computer security. In class we have discussed several topic areas:

1. A steganography tool that functions much like the magnifier tool in windows. Messages can be hidden in the least significant bits of an image. When the tool is placed over the image, the secret content is revealed. Some encryption algorithm could also be applied. Several variants of this project have been proposed.
2. A comprehensive literature survey of security research in the wireless arena.
3. An experiment for assessing the usefulness of an approach that aids in the secure design and implementation of software.
4. A tool for assessing software security based on known or novel software metrics.
5. You propose a topic for a research paper or project and I will make a recommendation.

All programming projects must be pre-approved. Undergraduate term research papers must be at least 10 pages and graduate survey papers will be 20 pages. The size of a paper may be smaller if the paper reports upon a novel approach. Please arrange your thoughts in a concise, logical manner. The term report should be clearly ordered and paragraphs should be unified and developed with effectiveness. Transitions between and within paragraphs should be clear, effective, and coherent. Grammar and punctuation should follow the accepted conventions. Please cite all sources using the appropriate notation. Plagiarism will not be tolerated and will result in a failing grade.

Graduate students will be required to give a 20 minute presentation at the end of the semester. Undergraduates will give a 5 minute presentation.

Initial Report

An initial report (500 words) should describe the project you are undertaking and outline your plans for the remainder of the semester.