Lecture 10: Usable Security

CS 392/6813: Computer Security
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- HW4 is being graded (should be done soon); solution was provided
- HW5 solution will be provided soon; and it’ll be graded soon
- HW6 due on Friday
- HW7 (buffer overflow) to be posted soon
  - Technical problem with vlab; we can’t use it at the moment
- Final is 12/18, 6-8:30pm
  - 25% pre-midterm, 75% post-midterm
Today’s Lecture

- The user aspect in security
  - User is often the weak-link in security
  - Can we build secure systems by relying on the strengths of human users rather than their weaknesses?

- We study this in the context of two important problems:
  - Wireless Device-to-Device Authentication (today)
  - User-to-Device Authentication (next lecture)

- The field of Usable Security is quite new and immature
  - Research flavor in today’s lecture
Recall the Security Life Cycle

Which stage?

What Design Principle?

Threats

Policy

Specification

Design

Implementation

Operation and Maintenance