Lecture 11: Usable Security

CS 392/6813: Computer Security
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Course Admin

- HW5 graded
- HW6 and HW7 are to be graded; solutions to be provided
  - Sorry for the delay!
- Demos for HW8 due starting 11am on 12/15
  - You can use your own intel-based machines
  - Not everyone has asked for an account on vlab?
  - You must not work on it after 11am, 12/15, no matter when your demo slot is
  - Sign up for a demo slot
- Final is 12/18, 6-8:30pm
  - 25% pre-midterm, 75% post-midterm
  - Quick Review next lecture
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:
  - Device-to-Device Authentication
  - User-to-Device Authentication
- The field of Usable Security is quite new and immature
  - Research flavor in today’s lecture
Recall the Security Life Cycle

Threats

Policy

Specification

Design

Implementation

Operation and Maintenance

Which stage?

What Design Principle?