

CSE 498U/598U – Computer Security

Class 11: Friday, September 17

Reminders

- Homework
 - Homework 2 - Password Cracking DUE TODAY
 - Project 1 – Encryption breaking
 - Reading / Web Browsing
 - Google: Steganography
 - Chapters 3, 4
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Schedule

Friday
Authentication / Biometrics
Monday
Steganography, Fault Tolerance

Lecture Outline

Authentication Basics
Passwords
Challenge / Response
Biometrics

Key Points

- [From Wednesday] What are the four basic forms of authentication?
- Does it matter if your password is longer than 8 characters on a UNIX system?
- What is a password salt and why does it make cracking passwords harder?
- Using Anderson's rule, why is it only a lower bound on the probability of cracking?
- What makes a challenge/response system unique?
- Why are biometrics not a perfect solution?
- What is PAM?
- Describe a hybrid system that employs multiple authentication mechanisms.