Computer and Network Security

Tom Kelliher, CS 200 Mar. 9, 2006

1 Administrivia

| Announcements | | |
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| Assignment | | |
| | | |
| Read: Chapter 7. | | |
| Turn in answers to these questions: 6, 9, 23. | | |
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| From Last Time | | |
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| Privacy. | | |
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| Coming Up | | |
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| Computer reliability. | | |
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2 Chapter Summary

1. "The most secure computer is one that's kept completely unplugged, locked away in a closet." It is, however, not very useful.

| 3. | Univ | versity of Calgary CS courses: | |
|----|------|--|--|
| | (a) | Virus writing (2003). | |
| | (b) | Spam, spyware writing (2005). | |
| | Labs | s will be run on a "closed" network. Ethics? | |
| 4. | Viru | ses, worms, and trojans. | |
| | (a) | What is a buffer overflow attack? | |
| | (b) | The Nov. 2, 1988 Internet worm. | |
| | (c) | Trojan horses: nefarious code hidden within a useful program. Example: spyware distributed with Kazaa clients? | |
| | (d) | Zombie armies used to launch DOS attacks. | |
| | | What is a DOS attack? | |
| | (e) | Defense: authorization and authentication systems. (?) | |
| | | Weaknesses of password systems. | |
| 5. | The | hacker ethic: | |
| | (a) | Unlimited and total access to computers. | |
| | (b) | All information should be free. | |
| | (c) | Mistrust authority. | |
| | (d) | Hackers should be judged by their skill in hacking, not earned degrees, etc. | |
| | (e) | Art and beauty can be created on a computer. | |
| 2 | | | |

2. billg e-mail forgery.

(f) Computers can change your life for the better.

The will of the hacker is to improve the situation; there is no malicious intent.

- 6. System security "tools:" Crack, John the Ripper, Satan, TripWire.
- 7. Online and electronic voting:
 - (a) Pentagon plan for online voting for 2004 election was canceled in Feb. 2004.
 - (b) Benefits, risks?

3 Discussion Questions

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