Security - A Historical Perspective - Lab 2 is due next tuesday - Second writeup - due next Thursday 19305

- Alan Turing, Gordon Welchman + Harold Koen design the Bombe to crack the Enigma code. (Essentially, they automate a brute force attack!)
(aren't any computers)

19605

"Hackers" is the name given to people who muster the main frames and can push then beyond what they are designed to do.

("Bugs" came around this time also-

19705

John Draper, aka "Captain Crunch", finds a way to fool payphones into allowing free calls.

found a whistle in a cereal box

The phone hacker, or "phreak" movement, begins to take off as organized groups like YIPL/TAP form.

As a side note; Two members of the Homebrew Computer

(Inb, Berkeley Blue" and "Oak Toebark",
begin constructing blue boxes, which
are designed to hack into the phone

System. Vouve heard of these guys, right?)
Steve Jops a Steve Wornick

1980's

More groups form:

- Ware lords based in St. Lonis, (Mostly interested in Diracy, but they also infiltrated The White House, Southwestern Bell, & others)
- the 414's: break into over 60 sensative systems, such as Los Alamas. (This results in a Newsweek article and the first computer security legislation)

- Cult of the Dead Cow · publish are of the first "extres" · famous for later exploits

- Legion of Doom forms
Vone of the most famous, and a
few years later, one of the most
publicited after law enforcement
raids begin

1980'5

- -In 1983-84, pop culture catches on
 - · Wargames
 - · William Gibson writes Neuromancer, which invents the term cyberspace (as well as the matrix abother terminology)
 - · 2600 the Hacker Quarterly begins publication
 - · A year later, phrack begins its posting

Legislation - late 1980s

- 1986 - Computer Fraud and Abuse Act

passes
Parst time it is made illegal to back

into a computer

o Does not include juveniles

- In 1958, CERT is formed by PARPA (after Morris Worm)

The Hacker's Manifesto - 1986, in Phrack

Another one got caught today, it's all over the papers. "Teenager Arrested in Computer Crime Scandal", "Hacker Arrested after Bank Tampering"...

Damn kids. They're all alike.

But did you, in your three-piece psychology and 1950's technobrain, ever take a look behind the eyes of the <u>hacker</u>? Did you ever wonder what made him tick, what forces shaped him, what may have molded him?

I am a hacker, enter my world...

Mine is a world that begins with school... I'm smarter than most of the other kids, this crap they teach us bores me...

Damn underachiever. They're all alike.

I'm in junior high or high school. I've listened to teachers explain for the fifteenth time how to reduce a fraction. I understand it. "No, Ms. Smith, I didn't show my work. I did it in my head..."

Damn kid. Probably copied it. They're all alike.

I made a discovery today. I found a computer. Wait a second, this is cool. It does what I want it to. If it makes a mistake, it's because I screwed it up. Not because it doesn't like me... Or feels threatened by me.. Or thinks I'm a smart ass.. Or doesn't like teaching and shouldn't be here...

Worms

- 1987 - The Christmes Tree EXEC

- 1988 - The Morris Worm

- 1988 - The Father Christmas Worm

(plus many more costly attacks)

Operation Sundevil (n 1990): The Secret Service raids prominent members of hacking BBS3 in over 10 cities, including: legion of Doom = Seve Jackson games his prompts the formation of the EFF- Electronic Fronter Foundation

990s - 1992: Sneaters comes out - ques the first "white het" perspective - 1993: · Defcon begins · AOL gives its users USENET access The BBSs disappear as WWW appears

More exploits: Late 1990s: -AoHell' - Russian hadeers steal \$10 million

1995:

- Hacters is released
- Highly publicized Kevin Mitnick arrest
 Vimprisoned without trial for 4 years
 famous for social engineering he
 did almost everything without
 ever exploiting wilnerabilities!
 - o In 1999, he is eventually tred, gets 5 years sentence, at 15 wilmost immediately released.

Late 1990s

- 1996:
 - -Hackers deface DOT, CIA, & Air Force websites
 - · US Gen. Accounting office reports over 250K attempts to break into DoD computers in 1995 alone (About 65% succeeded!)
 - emp3s come out a are immediately
 pirated everywhere

- 1997 - 98

*Windows NT, MS's answer to how insecure '95 at '98 are is released

(at is immediately a grant target)

*Super bowl add (!) by Network

Associates

*RIAA takes off at begins cracking down on Ptp distributors (including teens)

*Napoter is released

- Banner year for security (& hacking). Hundreds of advisories de bug updates. - LOpht testifies before Congress that they could shut down the internet in 30 min ates - Legion of the Underground "declares war" against Irag & Chinese governments Major denouncement is released, signed by CDC, phrack, Lopht, L'other major hacker groups

1999 cont; - Melissa worm (first major macro exploit) - Political haddings increase - Clinton announces \$1.46 billion initiative to improve computer security - Civilization fails to crumble at midnight on Dec. 31, 1999

- ILOVEYOU worm-first to use VBS Infects millions in hours. (One of most damaging ever.)
- teenager serves jatt the for the 2001: - Microsoft DNS hack
- Russian programmer is arrested (at
DEFCON) for Violeting DMCA
- Deveral major virases and worms

2002-2003:

-MS promises Cleanup & more

Secure products

-DHS quen jurisdiction over IT

Infrastructure

- MS must update export (aus

(see Mac commercial)

What events do you all remember?