

## How HIPAA Protect Healthcare: a Hackers view

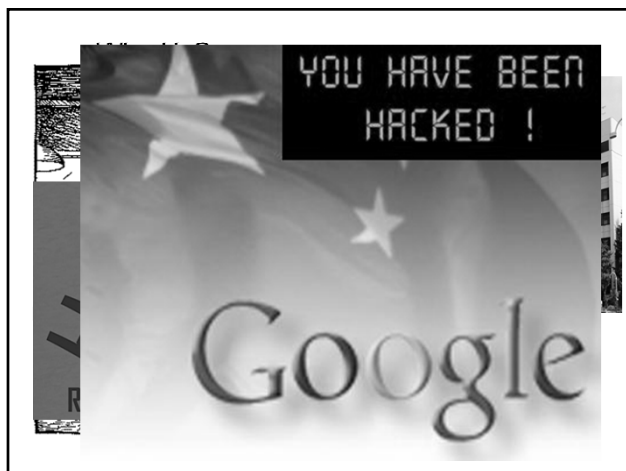
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### Who are YOU?



- Works in IT, Informatics
- Responsible for security
- Thinks HIPAA works
- Uses Backtrack
- Know PrivacyRights.org

### Goals


- Why healthcare is a target
- Common cyber threats to healthcare
- How to hack healthcare
- 3 methods used to hunt you down
- Understand how HIPAA really increases security



## Really, why us?

- Because we really stink at security!
- Have we really solved any problems? 
- “Wear a jammer to stop your pacemaker being hacked” 
- “Lawmakers Call for Probe of Medical Devices After Researcher Hacks Insulin Pump”

## How to find hackable places

- 1 Find medical facilities (DNS, GoogleDork) 
- 2 Find software they run (nmap)
- 3 Attack software (exploit-db.com)
- 4 Physical attack (USB, SE)
- 5 Just takes 1

## Hackers favorite software

- Maltigo “stalker software”
- Wireshark “sees everything”
- Nmap “gives us what to hack”
- FastHack “script kiddies delight”
- SET “hack the head”

Demo time

## What hacks does HIPAA solve?

- Intrusion Prevention (IPS) not detection
- Central monitoring
- Training (Red flag)
- Message Integrity
- IT Records Management

More HIPAA does

- Passwords Longer now
  - NOT the same!!!
- Encryption Using cloud/GPU
  - Laptops (data at rest)
  - Emails (data in motion)
- Policies Bullets to shoot them
  - Uniformly enforced

Review of hacking

- Easy to find medical on Internet
- Easy to find software their using
- Look for hacks and use them
- Sell Patient / Staff data

HIPAA is just basic security brought to the medical field

Questions?

- Trust but verify
- Up-grades can be a hole-grade
- Not if -> when

Thanks for attending!

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