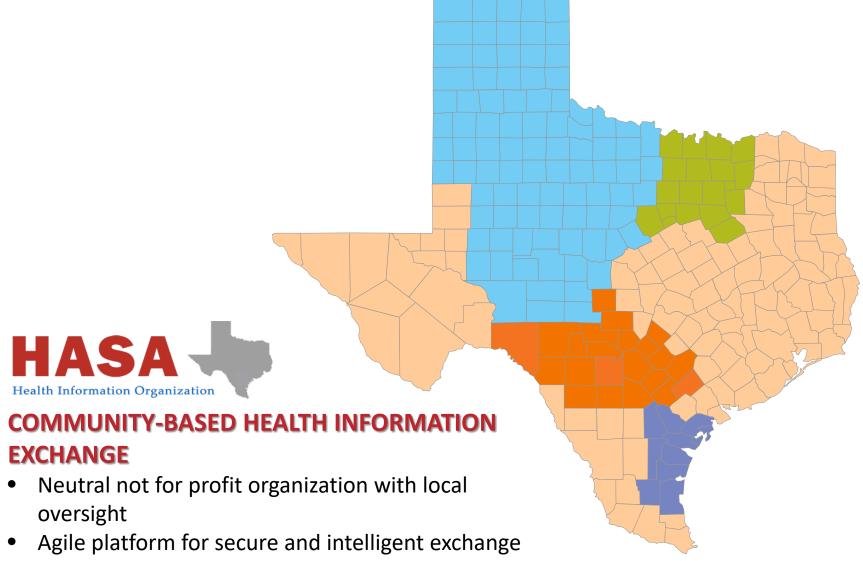
Cybersecurity Health

Phil Beckett, PhD HASA, CIO and Security Officer

How to stop the bleeding!





• In Texas, for Texans, connected today

WHAT IS HASA?

Centralized model

- Single community record
- Customized views
- Population management

Agile platform

- Multiple connection models
- Workflow integration
- Access and usability
- API and system integration

Community Partner

- Integrate with existing initiatives
- Local governance
- Complementary offering

Value Driven

- Focus on local stakeholder business needs
- Manage utilization and ROI metrics
- One connection, all the data

WHO IS HASA?



Gijs van Oort CEO



Rob Harris Implementation



Phil Beckett CIO



Carol Herrera Administration



Kim Harris Marketing



Jim Hoag North Texas Lead

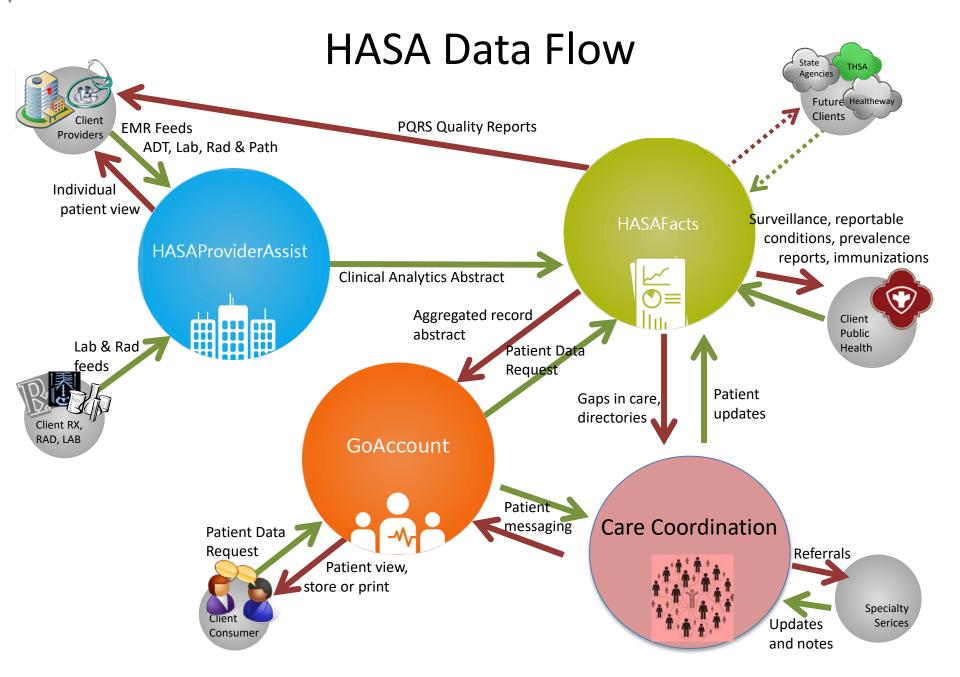


Andrea Espinosa Analytics



Storey Sherriff Marketing





FOURTH ANNUAL 2017

DATA BREACH INDUSTRY FORECAST



By Experian® Data Breach Resolution

Based on Experian, the top data breach trends for 2017 are:

- Aftershock password breaches
- Nation-State cyber-attacks move from espionage to war
- Healthcare organizations will be the most targeted sector
- Criminals will focus on payment-based attacks
- International data breaches will cause big headaches for multinational companies
- Virtual reality



What is the Incentive

- 10 Medicare numbers 22 bitcoin, \$15,550
- Why \$1500 per Medicare number?
 - Includes SSN, names, dob, policy #s and billing information
 - Can
 - Open credit lines
 - Generate fake IDs
 - Purchase and resell medications and durable medical equipment
 - Longevity

Why the easy target

- Independent workforce, many in small practices
- A focus on healthcare
- Thin margins/investment priorities
- Damaged party and controlling party different/consumer demands
- Need to share/many Business Associates
- Software systems requiring old OS



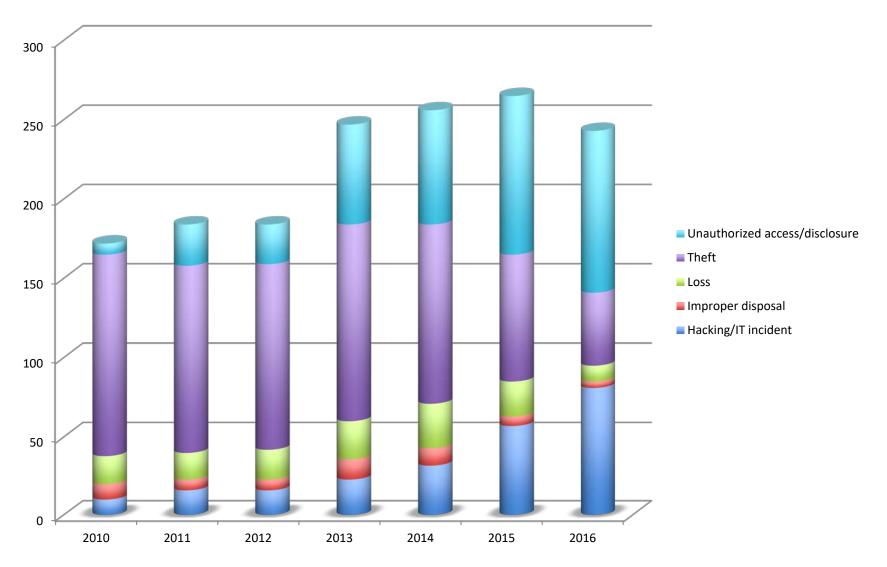
How

- Social exploitation/engineering
 - Ransomware
 - Phishing

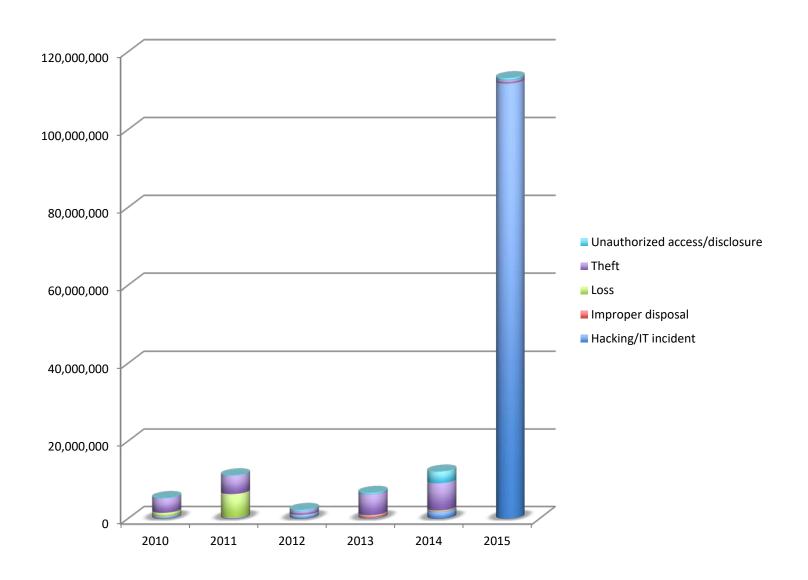
- Theft, loss, improper disposal, data on laptops
- Unauthorized disclosure
- Internal malfeance



How much/many?



Records disclosed

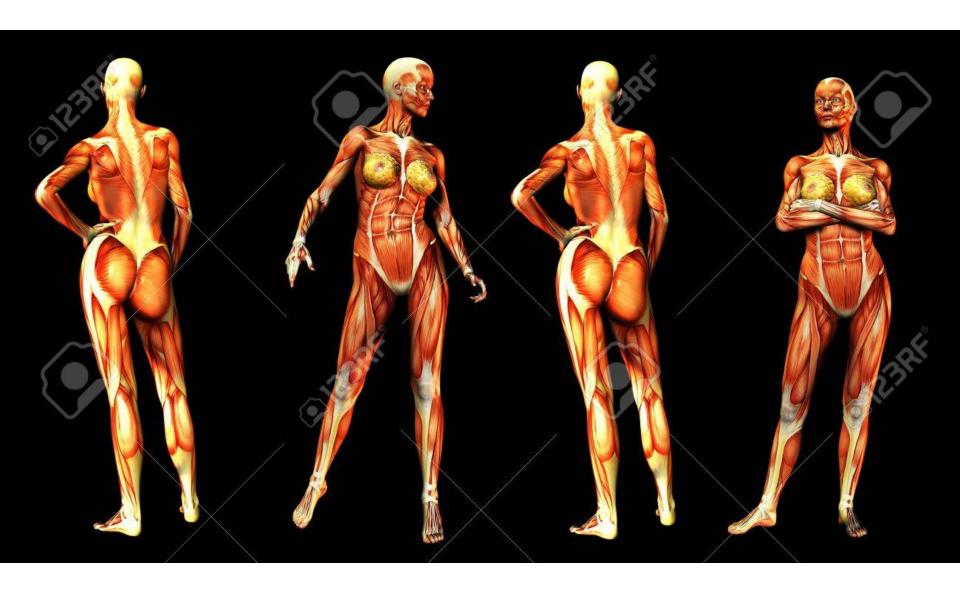


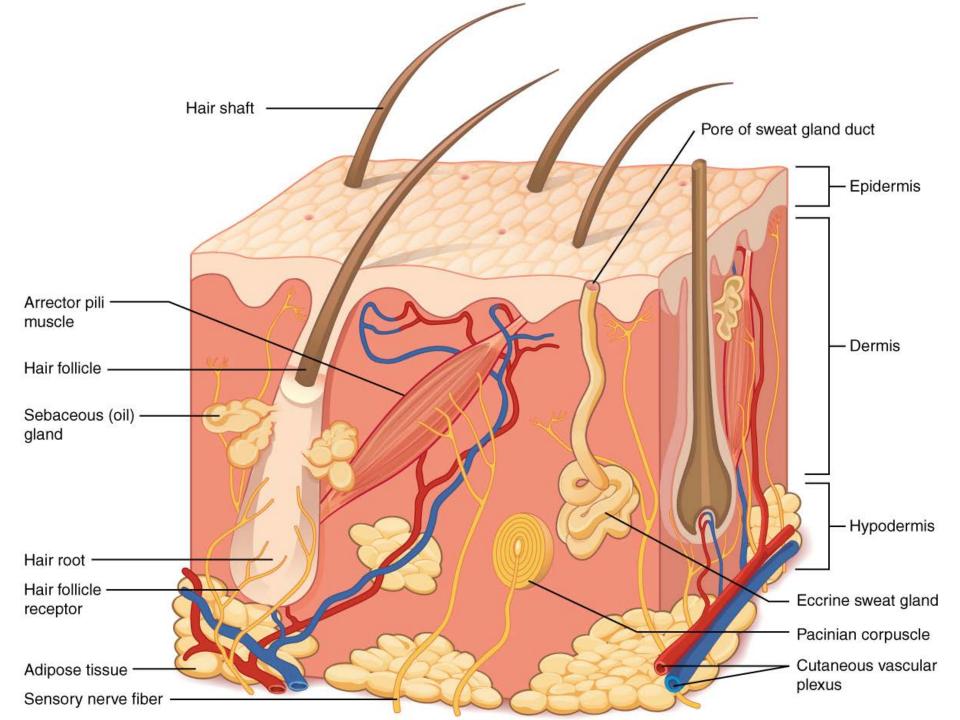


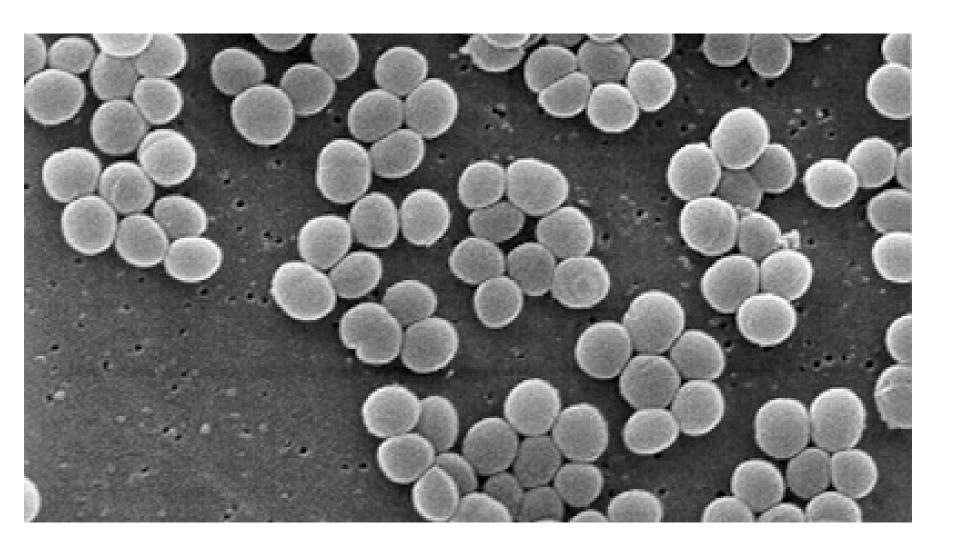
Incidents by:

- External Hackers 40%
- Internal negligence 30%
- Internal bad players 30%











Multi factor defense

- Barrier epidermis replaces itself every
 4 weeks
- 2. Covering of good microbes
- 3. Blood clot prevents systemic distribution
- 4. Lymphocytes grab germs and isolate them in lymphocytes
- 5. Nerve cells signal to the body of a problem, activate immune system
- 6. Pattern matching to know self from pathogen

Sepsis – 0.072%, 35% mortality

2015 - 100 million healthcare records hacked

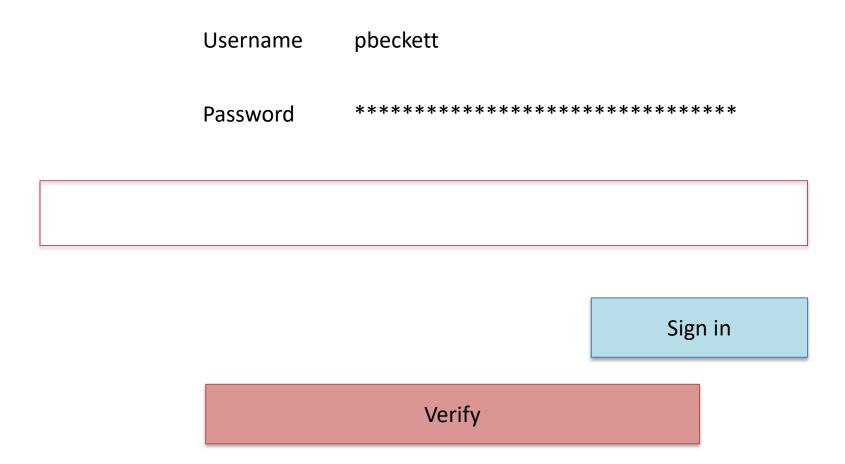
External Hackers

HACK LIKE A PRO

Linux Basics for the Aspiring Hacker, Part 1 (Getting Started)



Multi Factor Authentication



Remember – hackers can call your cell phone service provider, change your SIM and redirect your SMS to another phone. Put two factor on your phone account. Use email recovery with two factor

Block Chain

- Encrypted catalog
 - Hash to know if corrupted
 - Access control/permissions
 - Link to source

Internal negligence

- Encrypt
- Multi factor authentication
- Don't copy, use Block chain

Internal bad players

- Culture of security
- Make secure methods the path of least resistance
- Incentivize good habits, penalize bad habits
- Leverage the crowd
- Monitor, track, question and respond

Summary

- Encrypt
- Multifactor authentication
- Make catalogs not copies
- Make security your company culture

Thank You

Questions?