

RSAC[®]Conference2020

San Francisco | February 24 – 28 | Moscone Center

HUMAN
ELEMENT

SESSION ID: HUM-W09

I Had My Mom Break Into A Prison. Then, We Had Pie.



John Strand

Owner

Black Hills Information Security

@strandjs

#RSAC

Goals

- Look at physical assessments and how they are run today
- Case study: mothers, pie and cancer
- Case study: Iowa, courthouses and how not to (most likely) not get arrested
- How hard is it to break into a "difficult" location?
- Dealing with customer reactions
- You can always be sued. Get over it.
- The need for outreach. Or, this is really all our fault.

What We Are Doing Today

- Most testing companies and customers are scared
- The Iowa situation: An informative and very abbreviated recap
- Most assessments... Water, food/package delivery, tailgating, lockpicking, etc.
 - Wash, rinse, repeat
 - Consistency is safe. Consistency is mediocre
- Doing something "different" can be very difficult
- Stagnation is bad in security
- Fear is not a good pedagogical tool

A Little Bit Of Background



Off To Prison She Goes!!



But Wait! She Has A Secret Weapon!



"She must be ok..

RSConference2020

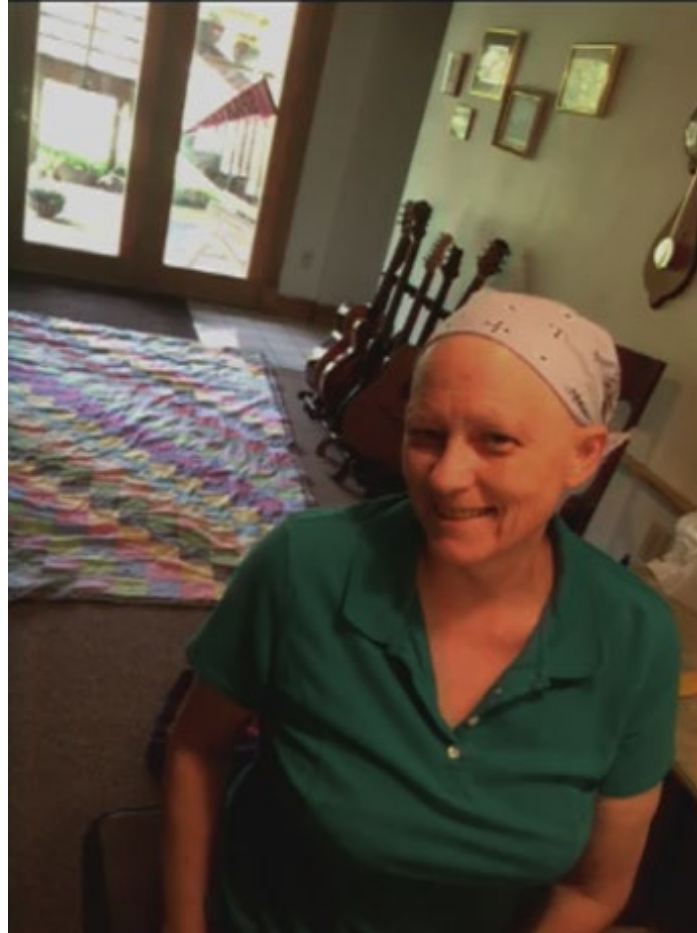
```
msf post(shell_to_meterpreter) > exploit

[*] Upgrading session ID: 1
[*] Starting exploit/multi/handler
[*] Started reverse handler on 10.0.0.11:8080
[*] Starting the payload handler...
[*] Transmitting intermediate stager for over-sized stage...(105 bytes)
[*] Sending stage (1495598 bytes) to 10.0.0.20
[*] Command stager progress: 100.00% (670/670 bytes)
[*] Post module execution completed
msf post(shell_to_meterpreter) > [*] Meterpreter session 3 opened (10.0.0.11:80
80 -> 10.0.0.20:37036) at 2015-11-05 16:36:20 -0600
```

..we are still getting shells."

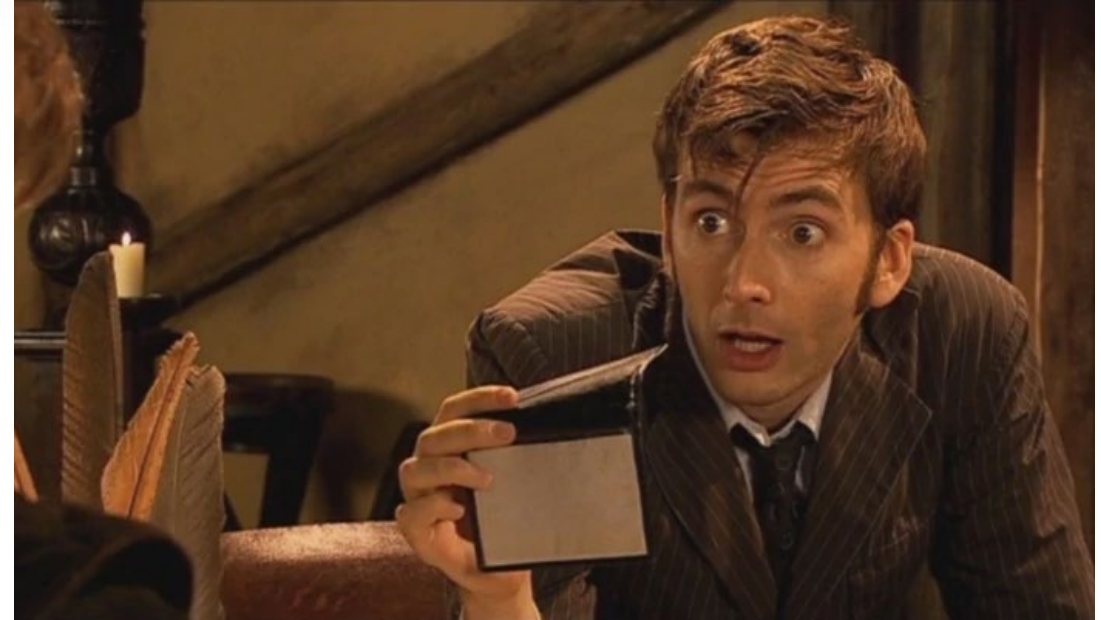
```
root@kali: ~  
File Edit View Search Terminal Help  
msf exploit(multi/handler) > run  
[*] Started reverse TCP handler on 192.168.86.223:4444  
[*] Sending stage (179779 bytes) to 192.168.86.61  
[*] Meterpreter session 1 opened (192.168.86.223:4444 -> 192.168.86.61:49197) at  
2018-05-29 11:48:32 -0400  
  
meterpreter > shell  
Process 3028 created.  
Channel 1 created.  
Microsoft Windows [Version 6.1.7601]  
Copyright (c) 2009 Microsoft Corporation. All rights reserved.  
  
C:\Users\victim\Downloads>
```


A Quick Note On Cancer...



Case Study: Iowa, Courthouses And How Not To (Most Likely) Not Get Arrested

- More Iowa background
- Where are we now?
- Physical security and downstream impacts
- Most of us have been or have come very close to getting arrested
- Psychic paper and flashlights



"I have my permission to test memo right here."

Apply! Or, Moving Forward

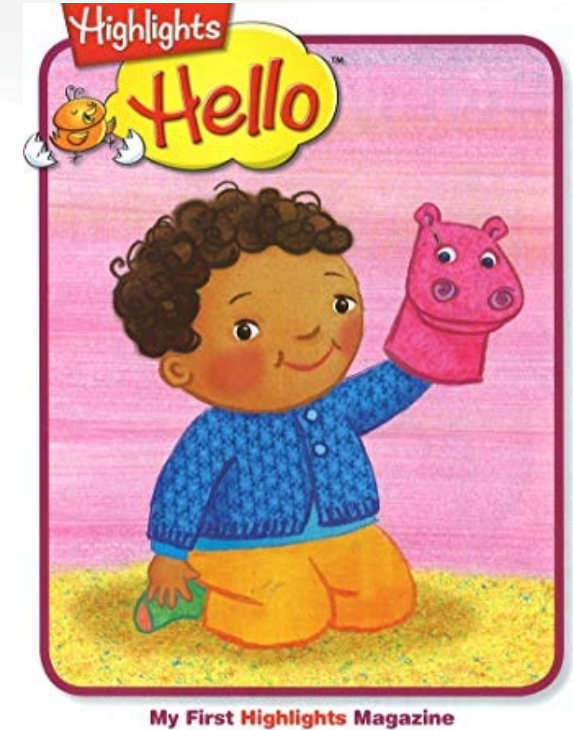
- Education and outreach are critical
- Awarenesscon in Adel Iowa
 - Sheriff
 - Local community
 - No fistfights
- Huge hat tip to SecDSM and Bsidelowa
- But... All this is our burden to bear
- We need to be reaching out to the community



Let's not be these people...

What can you do at work?

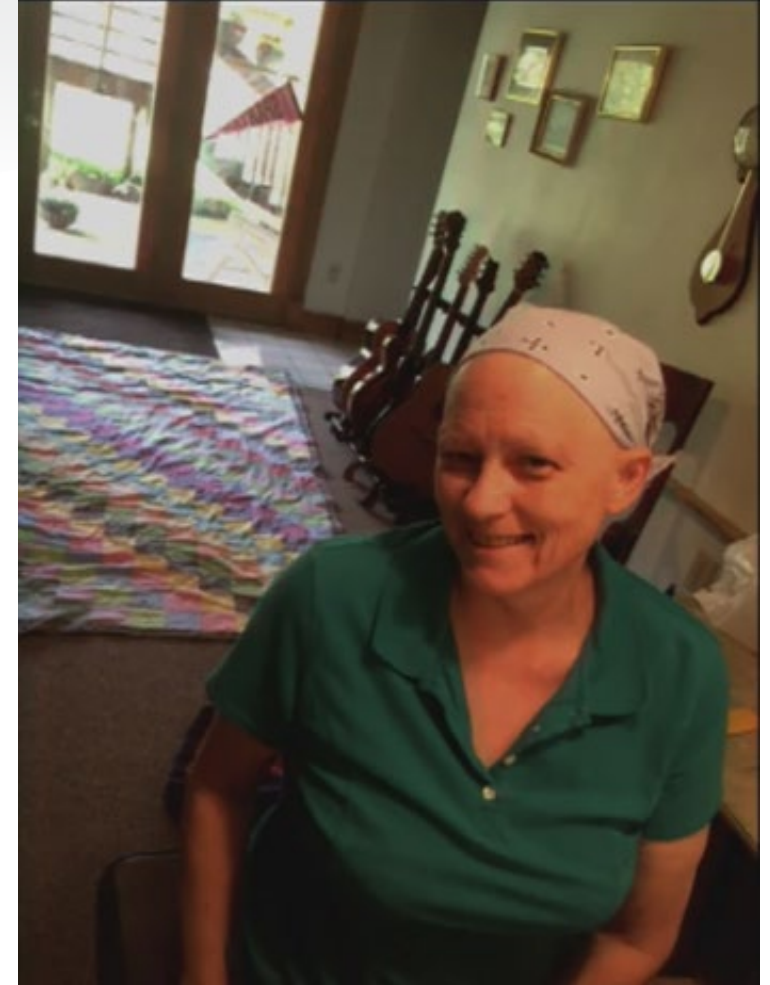
- Security information should not come from: USA Today, Fox News, Drudge Report, Huffington Post or Highlights
- We all need to be giving back and doing all we can to make others aware
- Newsletters
- Social engineering testing based on rewards
- Weekly Brown bag sessions
- And....



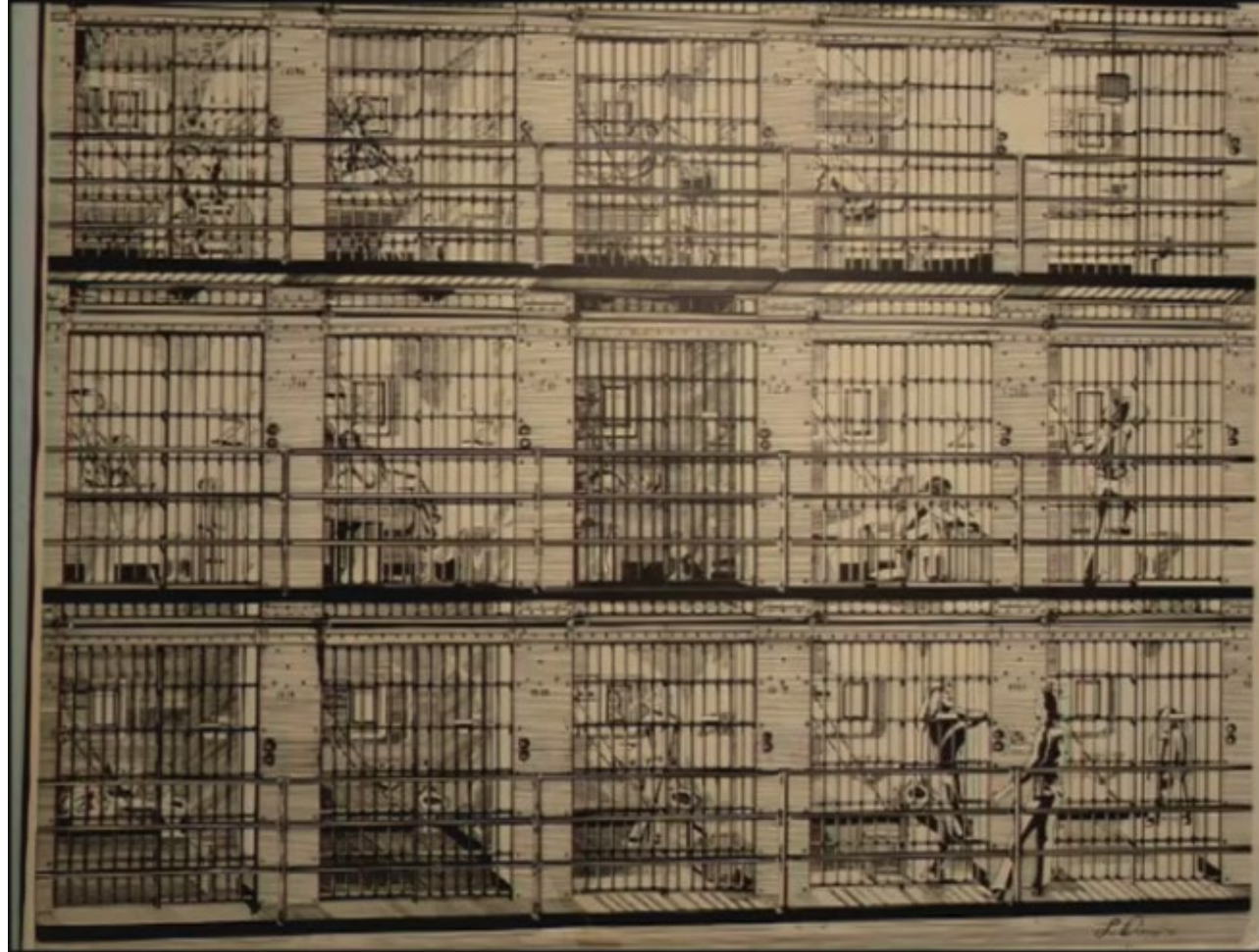
“Harry the hippopotamus says..
STOP CLICKING ON LINKS FROM STRANGERS!!!!”

Stories like.. this one

- My mom...
- It is relatable
- It is not just facts and statistics
- Has a human side (Hello RSA Theme!!)
- Gets the point across of respectfully challenging everyone (even those who seem to be in authority)
- Humans latch on to narratives
- Empathy is powerful
- Use them



I Had A Weird Childhood...



My Mom Always Said I Had A Choice...

