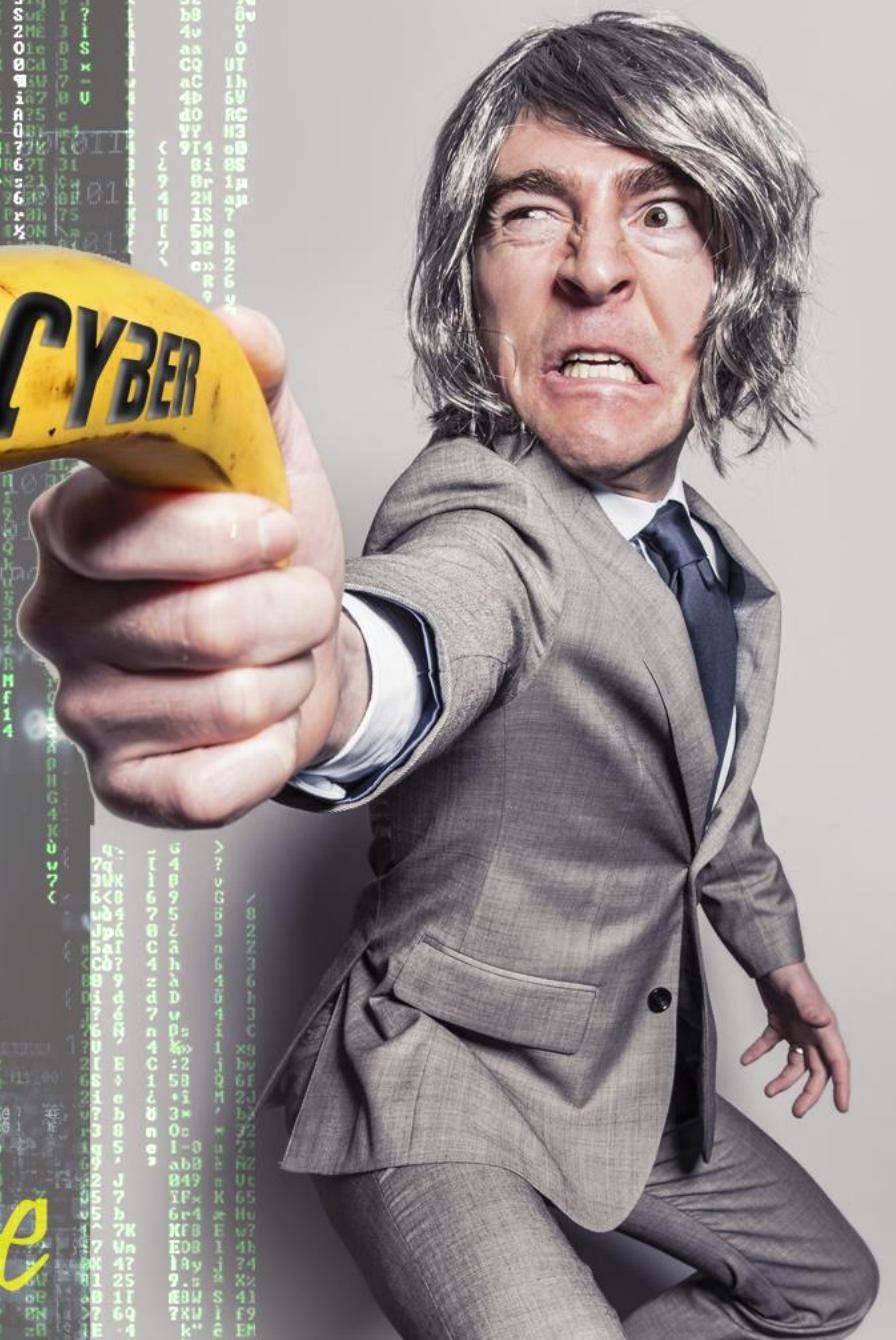


# weaponizing Layer-8

@khae



# Why is this talk relevant?

A landscape photograph showing a single, leafy tree standing in a vast, green, grassy field. The tree is positioned centrally in the lower half of the frame. Above the tree, the sky is a clear, vibrant blue, dotted with wispy, white clouds. In the upper left corner, there is a faint, semi-transparent watermark or graphic element depicting a stylized, multi-layered structure, possibly a building or a solar panel array, set against a dark background with small white stars.





**HUMANS MATTER**

# **How Cyber impacts the physical domain**



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0760 999 849





~~How~~ Cyber impacts the physical domain.

# **Empowering Users**



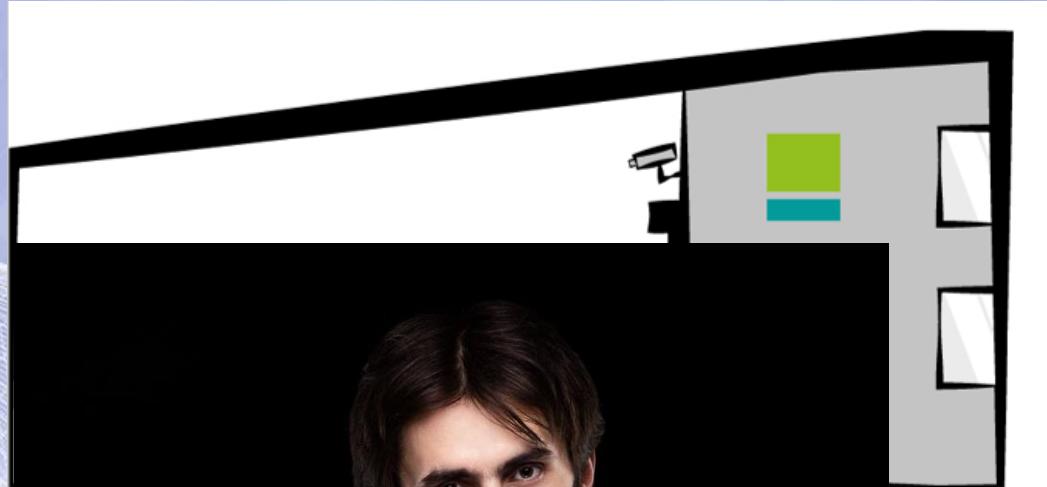
# How to deal with USB sticks







# A tale of unnecessarily complicated processes



A photograph of a person fishing from a wooden pier at sunset. The sky is filled with dramatic orange and yellow clouds. A fishing rod is held vertically, pointing upwards. In the top left corner, there is a semi-transparent graphic of a large, white, ribbed spherical structure, resembling a giant fishing net or a modern building, which overlaps the sunset colors.

# Gone Phishing

# Which of those links is malicious?

<https://bit.ly/2I12tV0>

<https://www.amaz0n.com>

<https://nore2flev4ertx1brzg3.man>

<https://paypal-security.legitdomain.com>

# Indicators of Bullshit (IoB)

Thanks to Bryan Fite for coining the term IoB!

A close-up photograph of a person's hand held open, palm facing forward, holding a pile of shiny gold coins. The coins are stacked in the center of the hand, with some spilling over the edges. The background is a solid, vibrant red color.

Money!



# Threats!



Romance!



urgency!



# Reverse Social Engineering

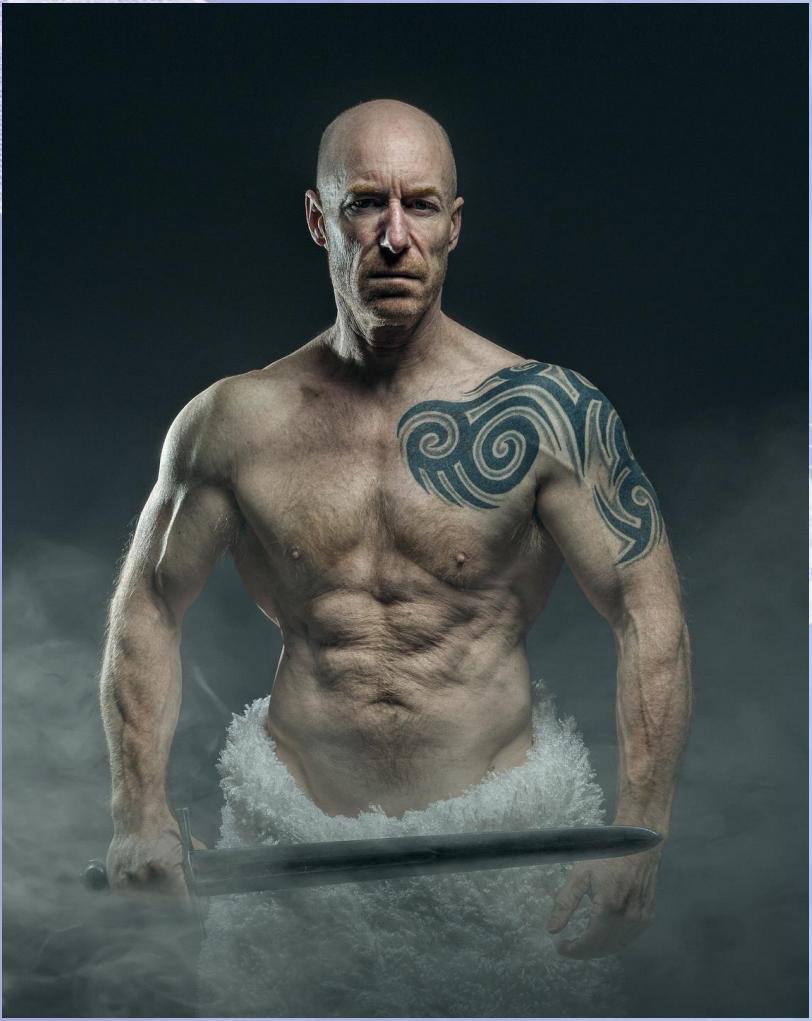


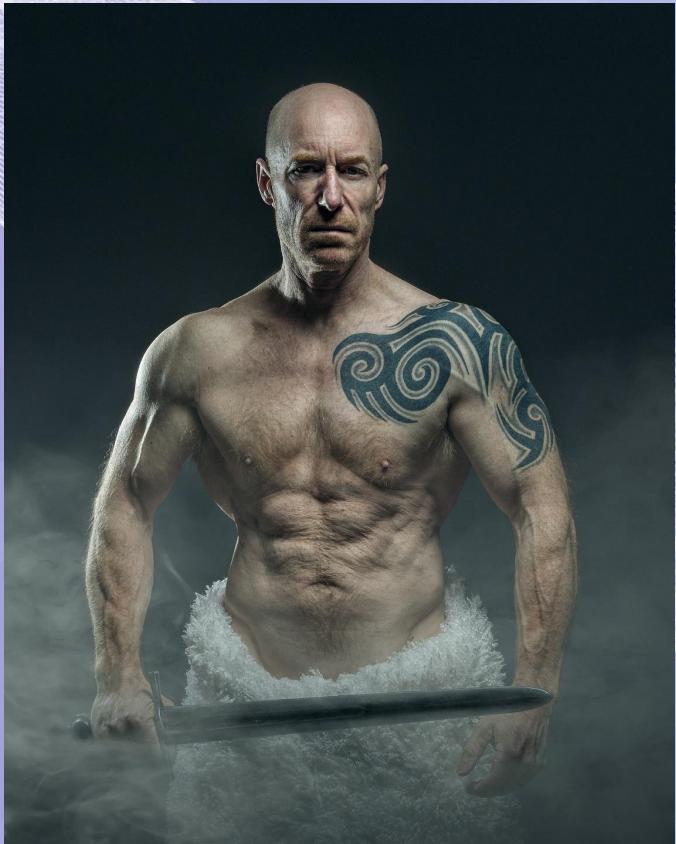






# **Passwords Company Style**





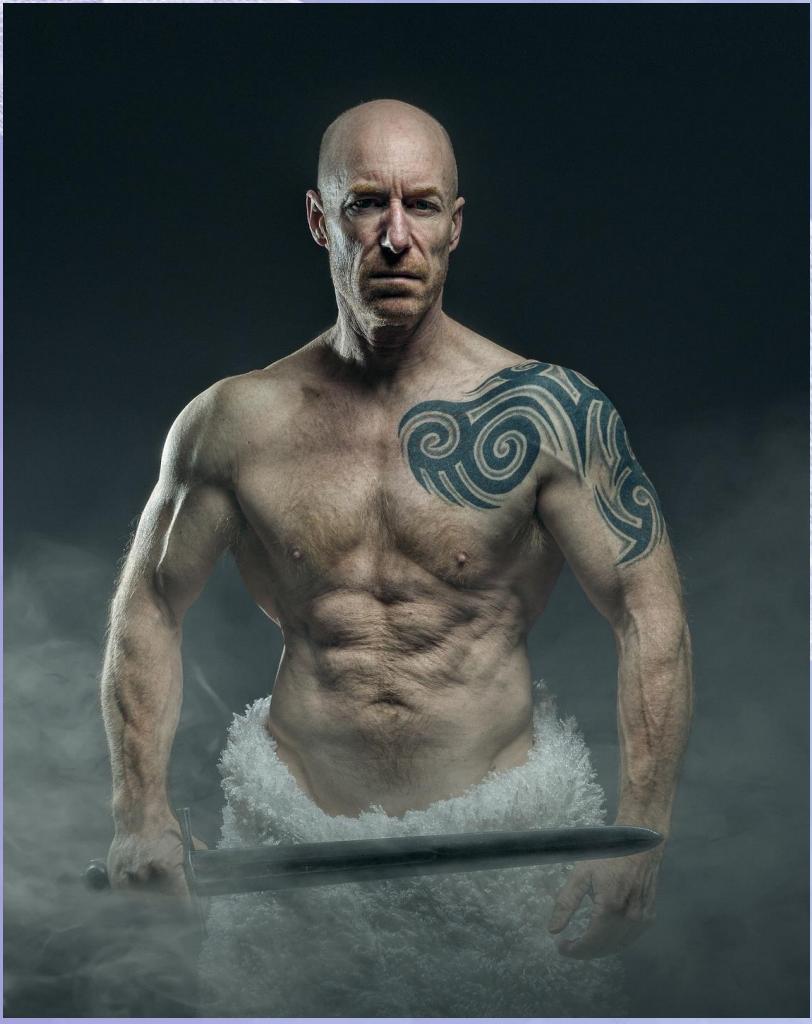
VS.

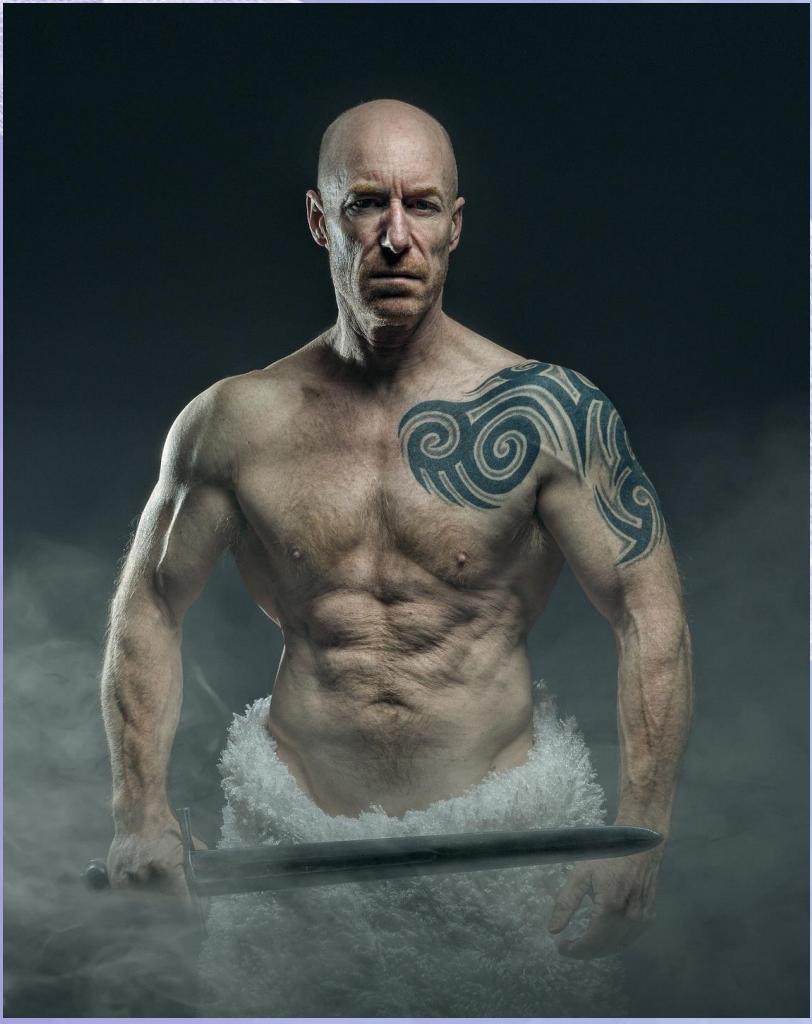


`^E-MsK&t4^gBsC9>k6ApQ>#d`

`password1`

# **Passwords Family Style**







[HOME](#) > [MOBILE](#) > [TRUMP REPORTEDLY IGNORES SMARTPHONE SECURITY BECAUSE IT'S 'TOO INCONVENIENT'](#)

# Trump Reportedly Ignores Smartphone Security Because It's 'Too Inconvenient'

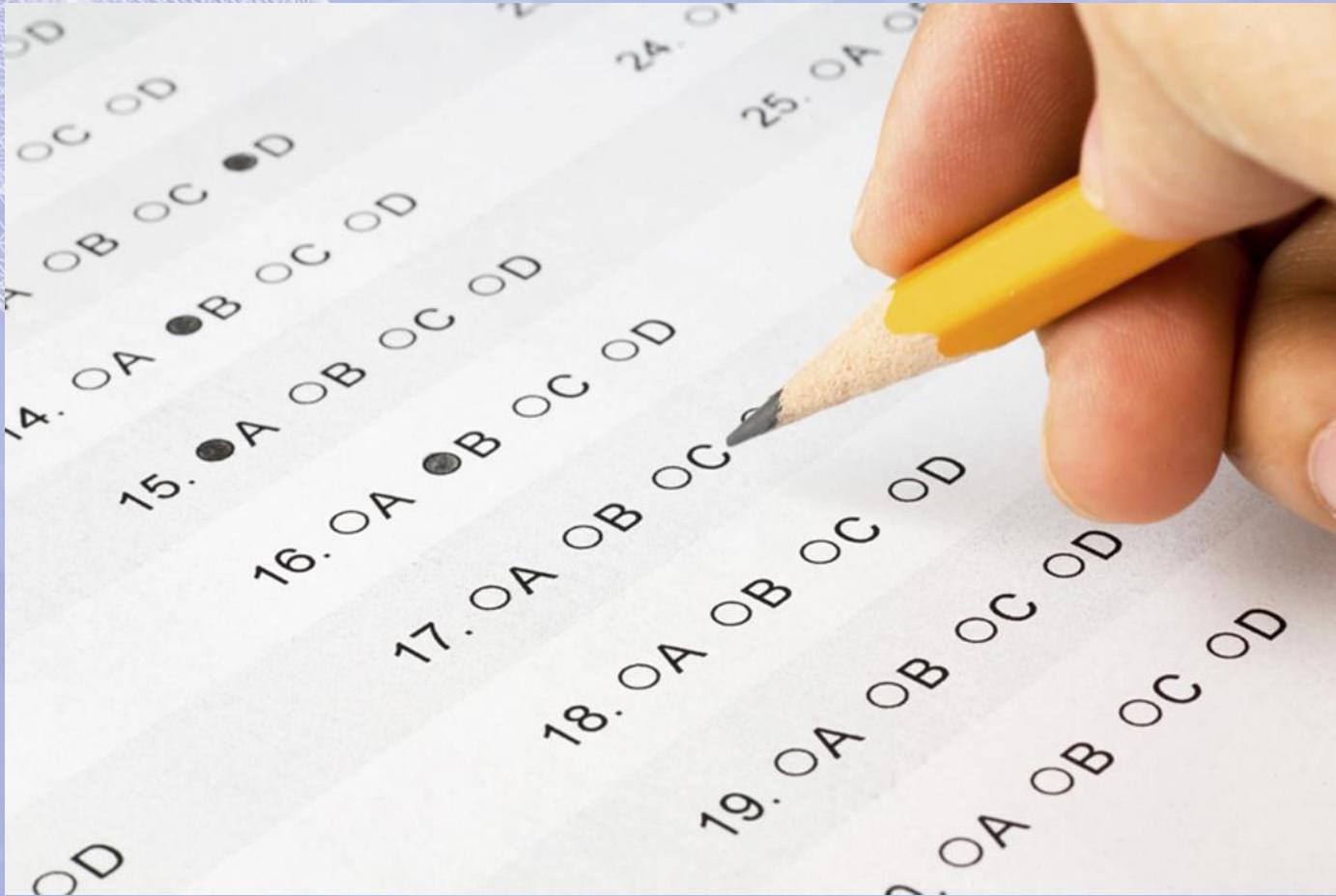
By Ryan Whitwam on May 23, 2018 at 7:30 am | [46 Comments](#)

# **Make Awareness Training Interesting**

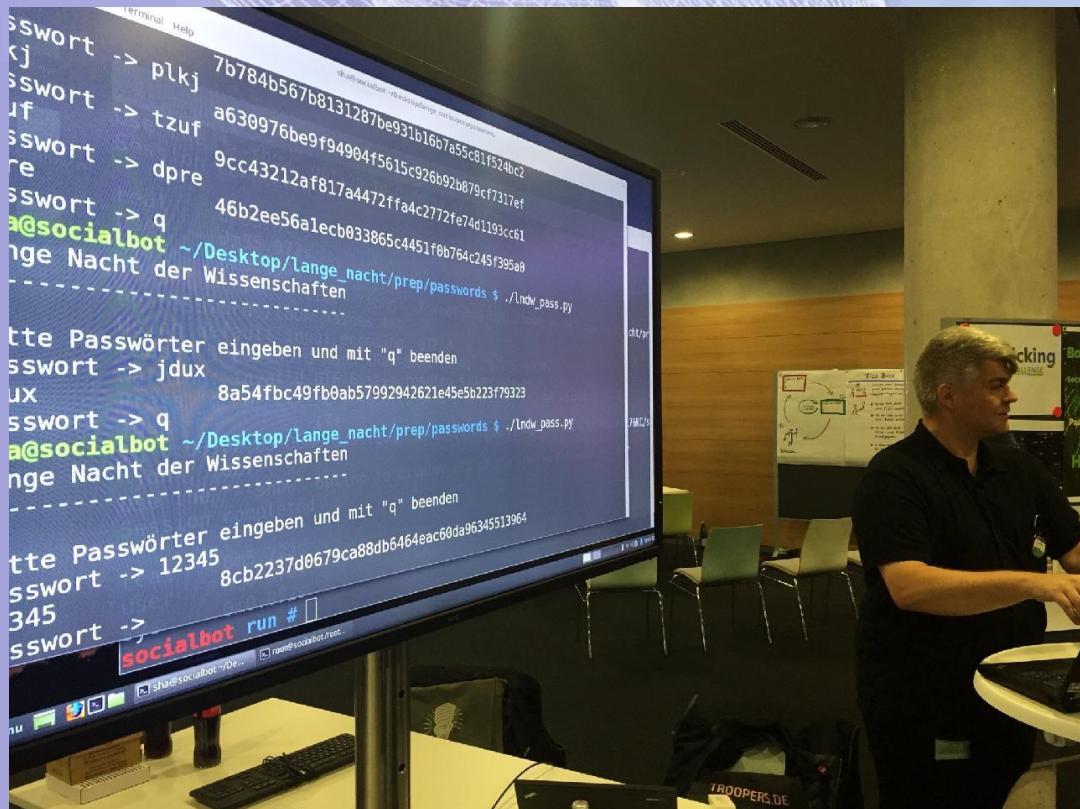
# Avoid FUD



# Avoid Multiple Choice Clickfests



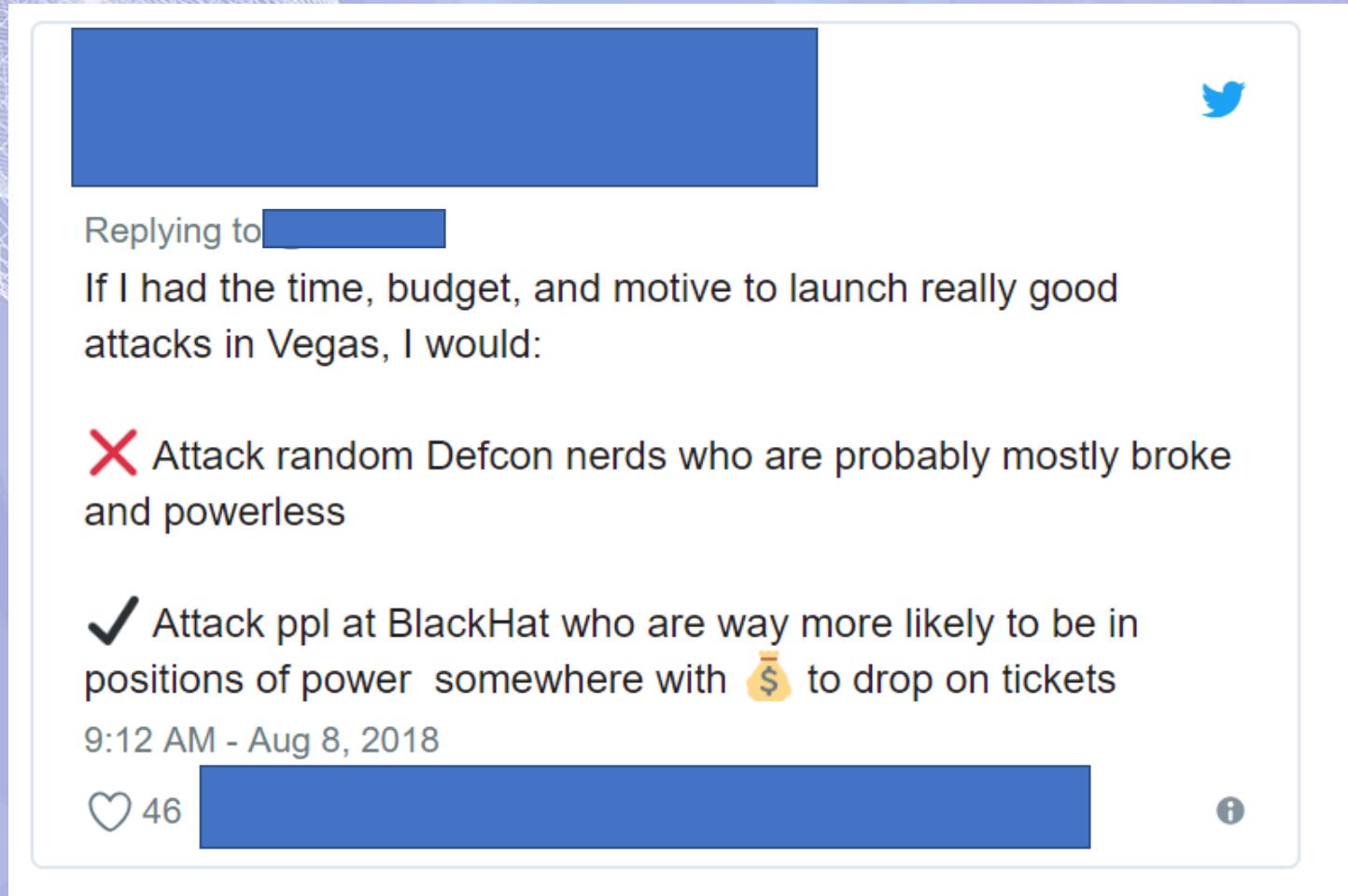
# Engage the users



# Use multiple channels



# Find the right language



Replying to [REDACTED]

If I had the time, budget, and motive to launch really good attacks in Vegas, I would:

- ✗ Attack random Defcon nerds who are probably mostly broke and powerless
- ✓ Attack ppl at BlackHat who are way more likely to be in positions of power somewhere with 💰 to drop on tickets

9:12 AM - Aug 8, 2018

46

# **Conclusion and Call for Action**

# Links

- Swatting: <http://edition.cnn.com/2018/01/03/us/kansas-police-shooting-swatting/index.html>
- Usb-keys: <https://elie.net/blog/security/concerns-about-usb-security-are-real-48-percent-of-people-do-plug-in-usb-drives-found-in-parking-lots>
- Detention station example: <https://odi-x.com/odix-kiosk/>

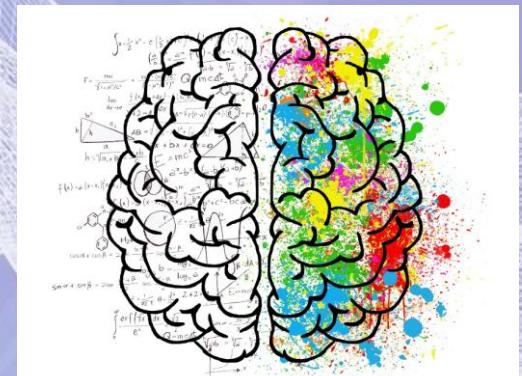
# Thanks for listening.



@khae

*Many Thanks to Bryan Fite for the contributions to the original version of this talk!*

work ↑





# Questions?

Pictures are CC0 and taken from

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morguefile.com

Big Thank you to the photographers  
and artists!