Supply Chain Summit Opener

Jake Williams (@MalwareJake)
Rendition Infosec
www.rsec.us
@RenditionSec

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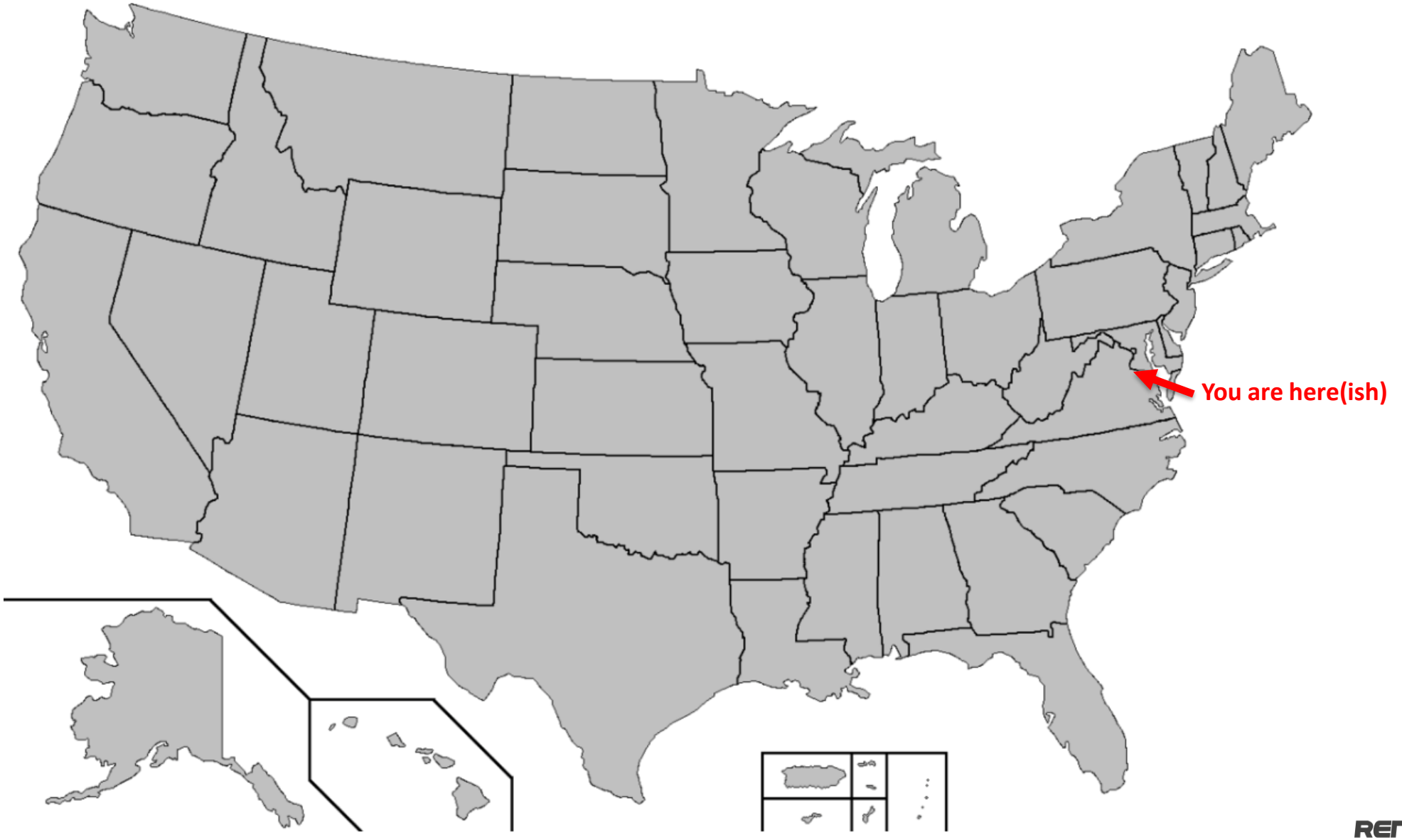
Cybersecurity by any legal means

Who came the farthest to be here?



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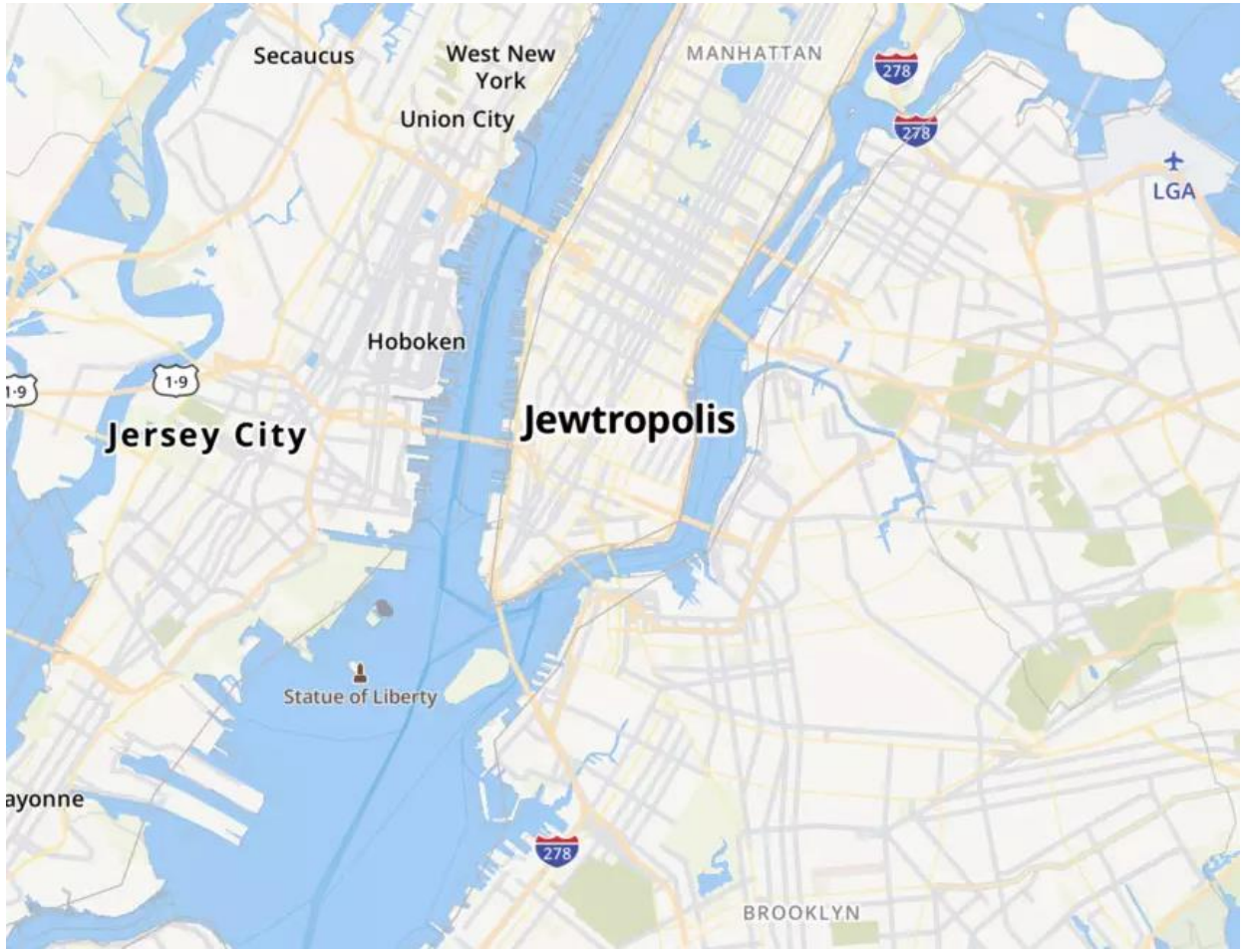
Did anyone travel to the event from NYC? (or this place)

- Snapchat and others were victims of a supply chain attack in 2018 where Mapbox began mislabeling NYC



ShadowPad

- In 2017, Kaspersky discovered an attack on users of NetSarang server administration software
- Attackers distributed new digitally signed components with Xmanager, a program popular in SouthEast Asia
  - This may provide some clues as to targeting
- The new DLLs (digitally signed by NetSarang) were distributed via the company's own update channels

NotPetya

- Unless you were in a coma over the last two years, you've probably heard about the Russian attacks on Ukraine
  - Attacks impacted much of Eastern Europe, Maersk, etc.
- Russian APT compromised the tax software MeDoc and used their software update mechanism to spread malware
- Malware was deployed through software update mechanisms
  - Third party software update mechanisms are notoriously difficult to secure and most vendors get this VERY wrong

NotPetya – MeDoc Server Room

- It’s hard to imagine a company without adequate server room cooling (or fan covers) having invested in great security

- But when buying hardware, software, or services, we rarely get such an in-depth look at internal operations

- We need a supply chain risk evaluation framework

ShadowHammer

- In January 2019, Kaspersky discovered a supply chain attack targeting users of the ASUS Live Update program

- This attack was distinct from NotPetya in a number of ways:
  - Although all Live Update ran attacker controlled code, only a handful (~600) were targeted to download next stage implants
  - The goal of the operation appears to be espionage rather than destructive actions
  - Although it was a software attack, only users of specific hardware would have been impacted

Python PyPi

- In October 2018, attackers were able to get malicious code into the PyPI repository
- There's a legitimate (and popular) package named colorama
  - Attackers created a package named colourama
  - So close, and yet so very far apart…
- There were numerous installations of the malicious package, which was surprisingly only targeting Bitcoin transactions

Supply Chain Attacks – Here To Stay!

- With better endpoint and perimeter security, supply chain attacks are here to stay
- We must get better at evaluating the threat landscape around supply chain attacks
- Attackers will evolve to ensure they maintain access to our networks