

Under the Hoodie

Actionable Research from Penetration Testing Engagements



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Under the Hoodie

Tod Beardsley, Director of Research

UNDER THE HOODIE: Actionable Research from Penetration Testing Engagements

By Bob Rudis, Chief Security Data Scientist, Rapid7, Inc.

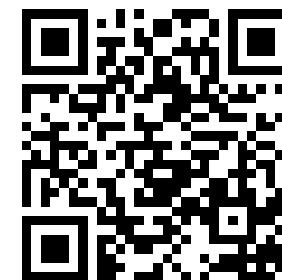
Tod Beardsley, Research Director, Rapid7, Inc.

Andrew Whitaker, Director, Global Services, Rapid7, Inc.

February 8, 2017

Penetration testing is routine, but occult.

- \$ whoami # -> Tod Beardsley aka @todb
- <https://rapid7.com/info/under-the-hoodie>

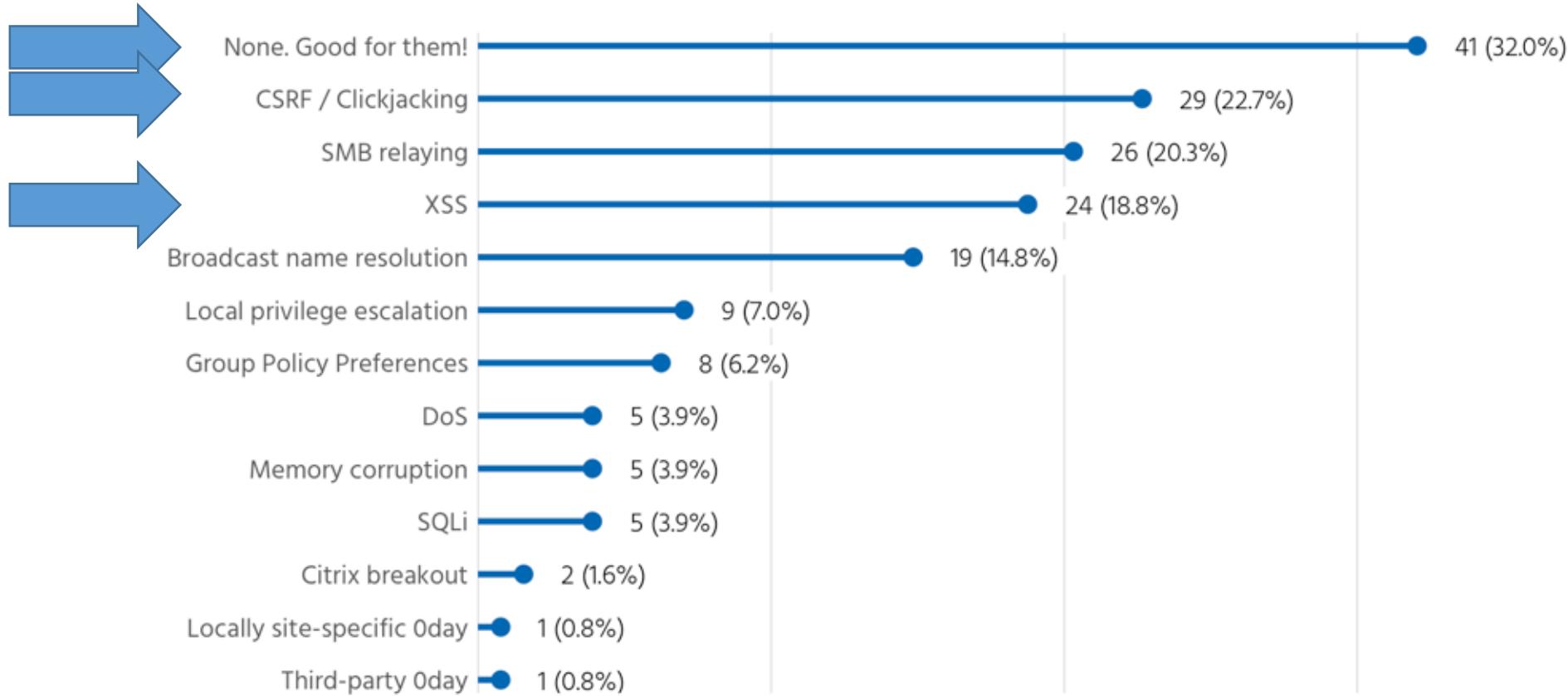


Vulnerabilities and Misconfigurations

2/3rds of engagements resulted in vulnerabilities being exploited.

Vulnerabilities encountered during engagements

Aggregation is across all engagements (n=128)



Source: Rapid7

Internal versus external

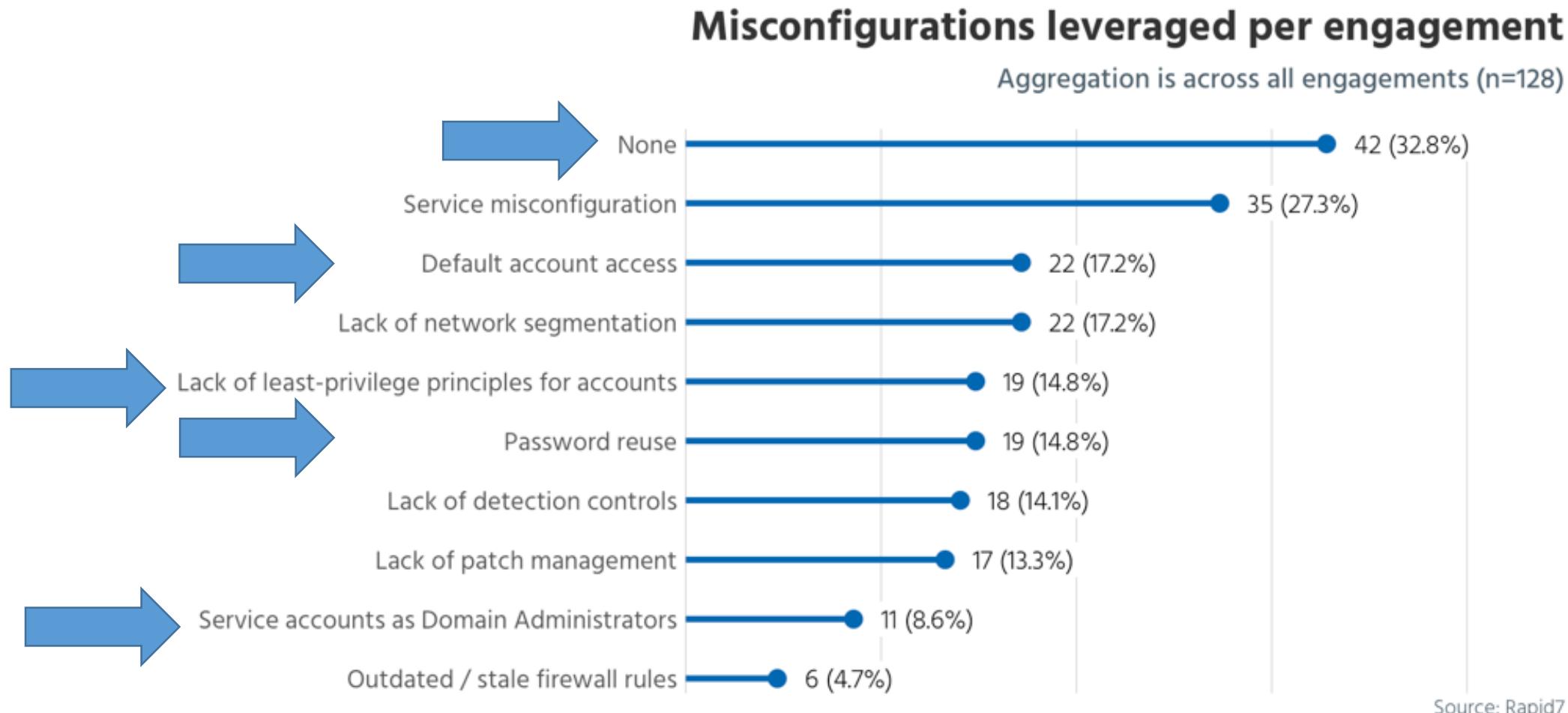
Internal engagements, as one might expect, is full of appealing targets.

86 External Engagements	47 revealed at least one vulnerability	44.2% vulnerability rate
27 Internal Engagements	26 revealed at least one vulnerability	96.3% vulnerability rate
11 Mixed Engagements	9 revealed at least one vulnerability	82.8% vulnerability rate



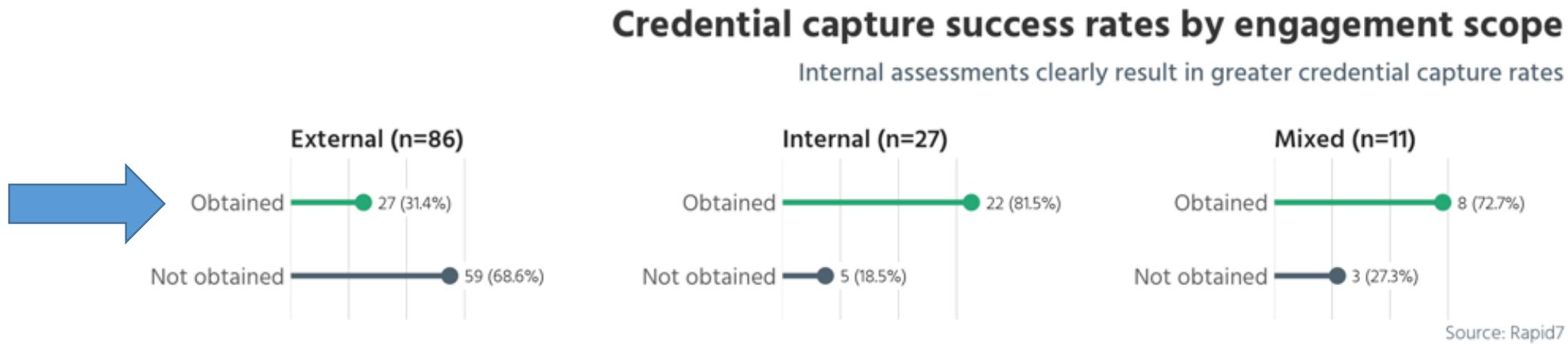
About a third of the sampled engagements had an internal component.

2/3rds of engagements also uncovered network and service misconfigurations

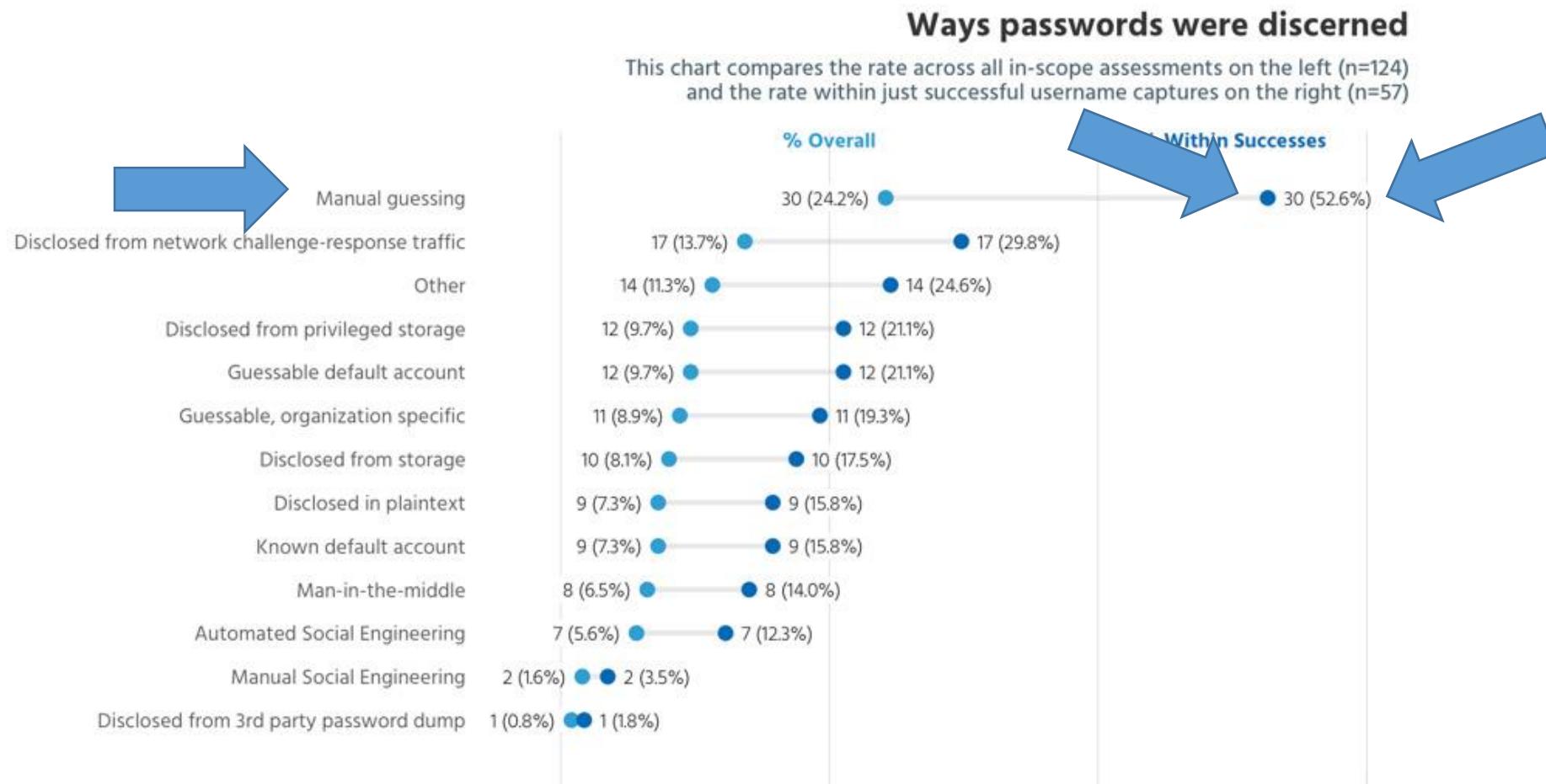


Credentials

About 80% of internal assessments result in a credential theft.



Humans: still pretty bad at passwords.



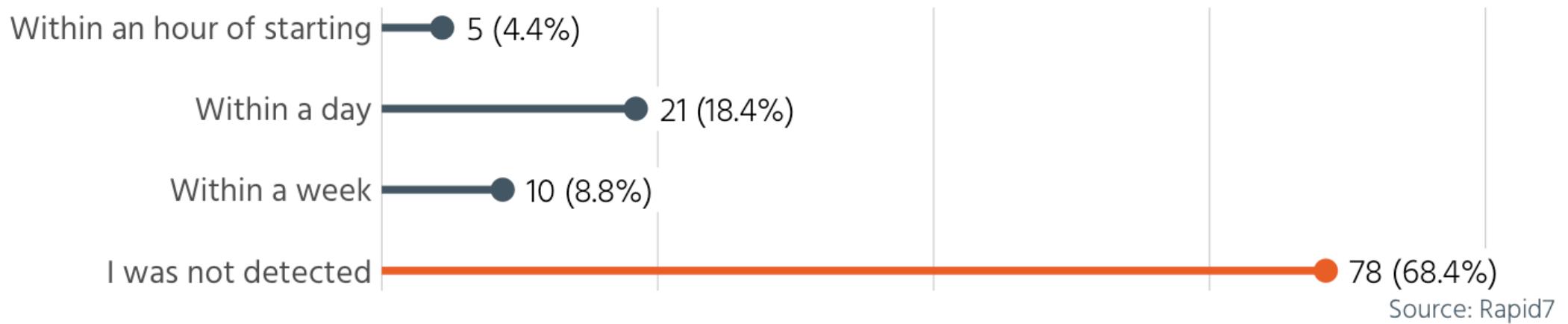
Winter2017!

Detection

2/3rds of pentesters remained undetected

How quickly were they detected?

Detection rate percentage for engagements where detection evasion was part of SOW (n=114)



This is not good.

Why?



It's not like pentesters
are stealthy ninjas.



Pentesters are pretty
obvious.



Detection is
everything.

InsightIDR

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Tons more to learn!

- Fun sidebar stories of pentesting in action
- Differences between industries, company size, pentest frequency, loads of juicy stats!
- “Ask a Pentester!” with Leon Johnson
- <https://rapid7.com/info/under-the-hoodie>

