

TESTING OR HACKING

REAL ADVICE ON
EFFECTIVE SECURITY
TESTING STRATEGIES

DAN BILLING |
@THETESTDOCTOR

#TESTBASH

WE HAVE A
PROBLEM

OUR
APPLICATIONS
AND SYSTEMS ARE
BEING HACKED



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TESTING CAN
HELP

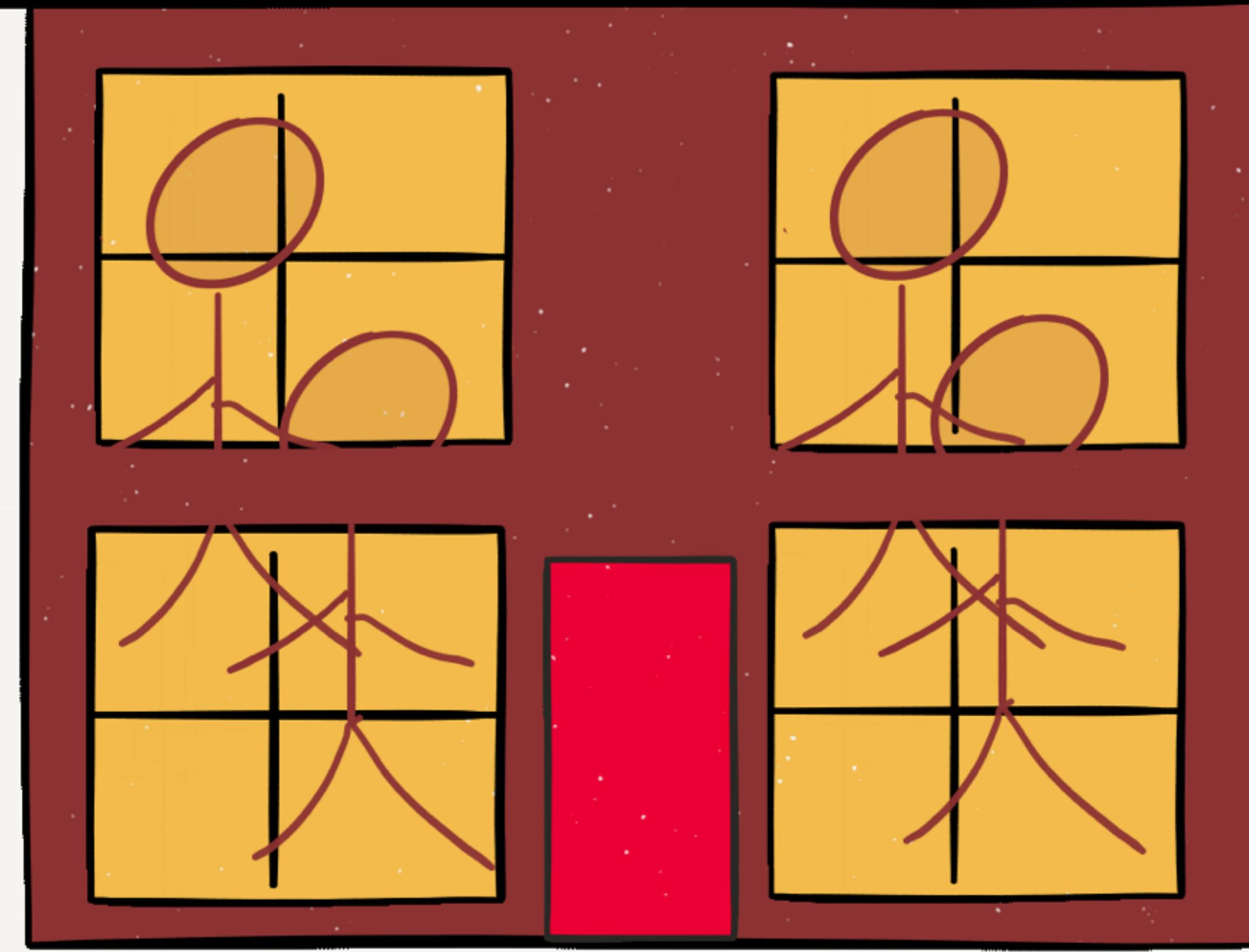
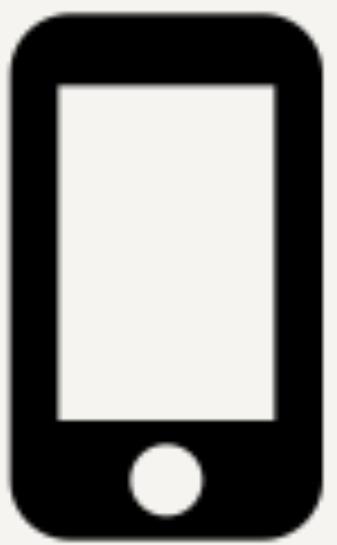
SECURITY
SHOULD BE
PART OF THE
CONVERSATION

WE NEED TO
LEARN FROM
THE HACKERS

“Hackers...they just might be the
immune system for the information
age...sometimes they make us sick,
and they make us fix it.”

Keren Elazari @k3e3n3
Cyber Security Researcher, TED 2014

MY TESTING CONTEXT





**WHY DO WE NEED
TO DO SECURITY
TESTING?**

THAT'S OUT
OF SCOPE

WE ARE
OUTSOURCING
THAT

THAT'S A NON
FUNCTIONAL
REQUIREMENT

WE DON'T HAVE
THE SKILLS

WE NEED TO
DELIVER FAST, NOT
SLOW THINGS
DOWN

I THINK WE NEED
TO DO SOME
SECURITY TESTING

WHERE DO
WE START?

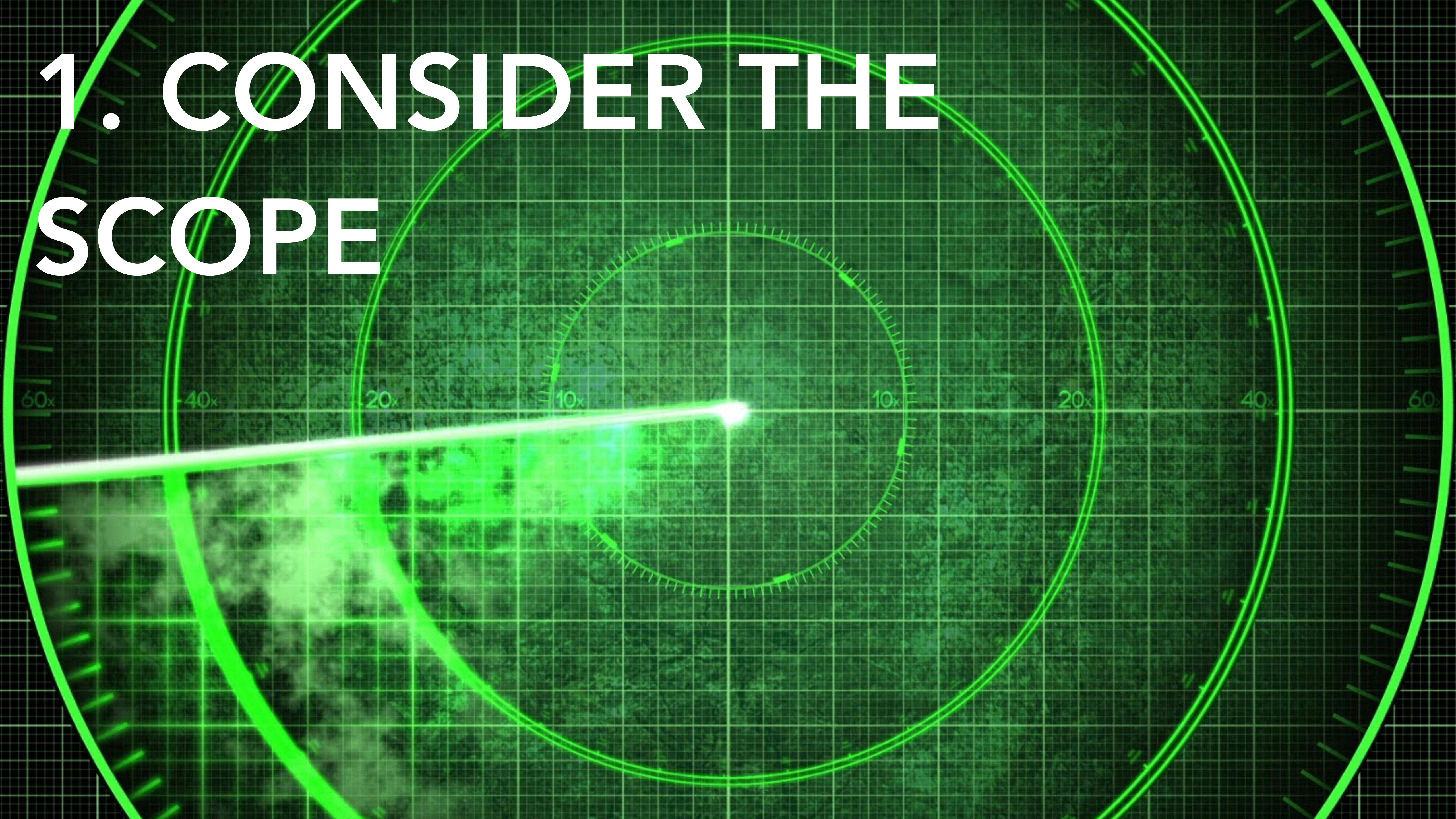
**HOW DO
WE DO IT?**

WE NEED
SOME
TRAINING

**WHAT TOOLS
DO WE NEED?**

HOW DO WE
KNOW IF WE
ARE SECURE?

1. CONSIDER THE SCOPE





2. KNOW YOUR STACK



Steve McFarland [https://
flic.kr/p/bHSM6](https://flic.kr/p/bHSM6)

3. UNDERSTAND YOUR WEAKNESSES

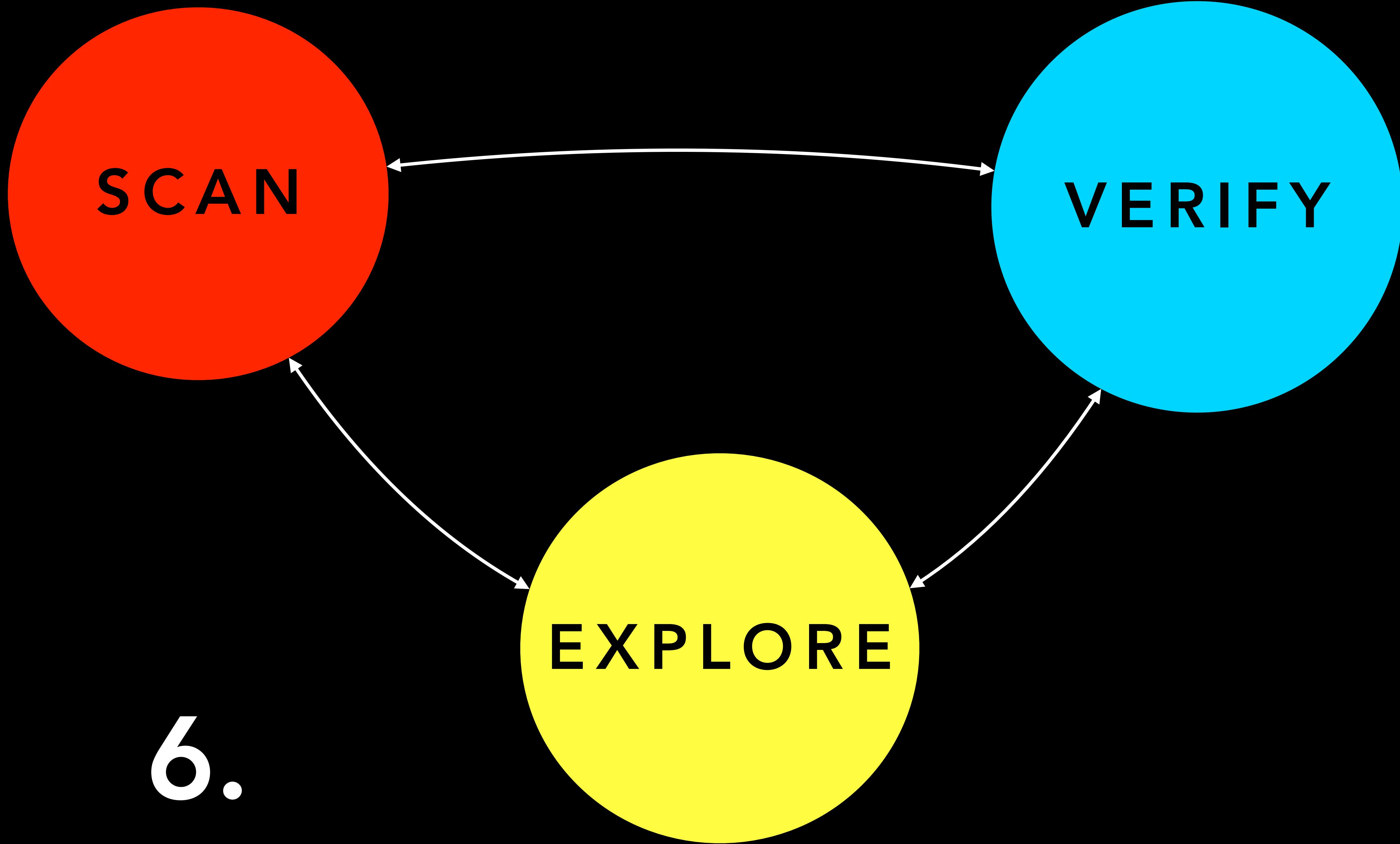


4. POWER UP!



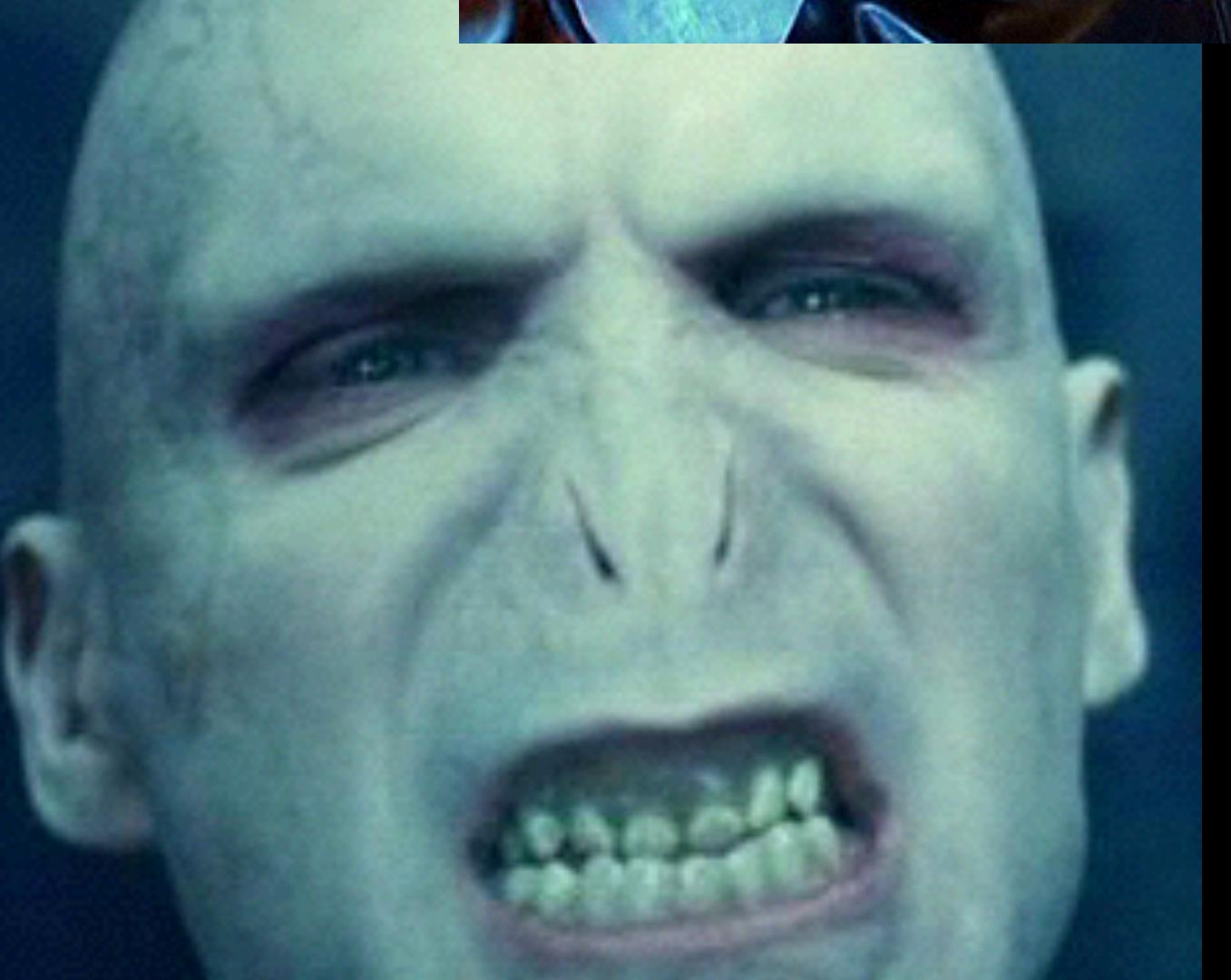
5. USE TOOLS EFFECTIVELY





6.

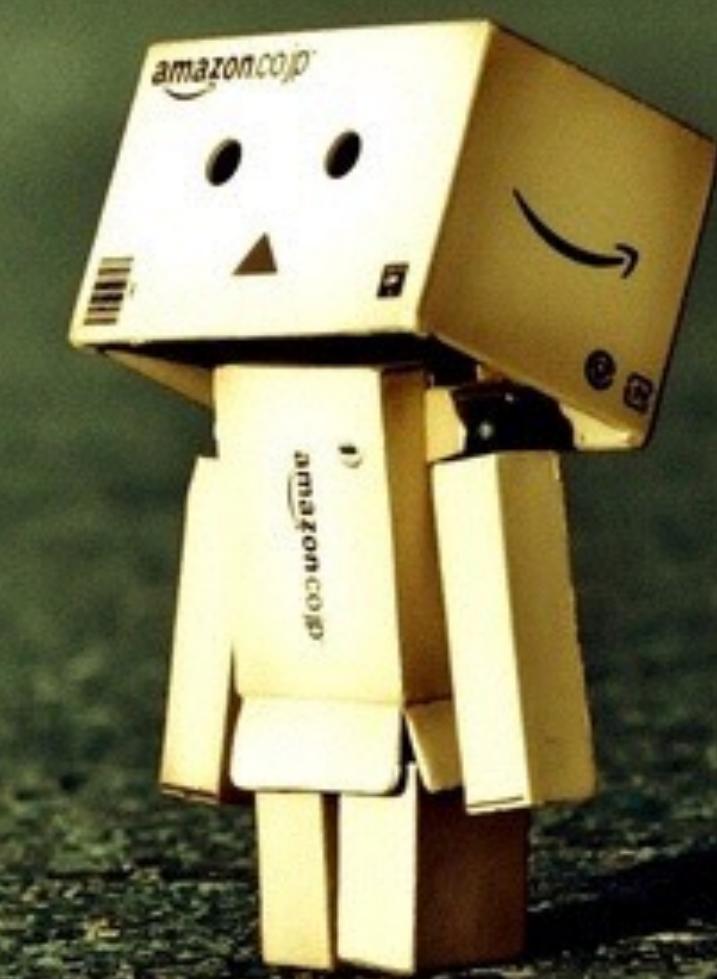
7. BE (OCCASIONALLY) EVIL



“As a hacker, I can

- send bad data in URLs, so I can access data and functions for which I am not authorised
- send bad data in the content of requests...
- send bad data in HTTP headers...
- read and even modify all data that is input/output by your application

8. DON'T DO IT ALONE



9. BE CLEAR, BE HEARD



A photograph of a person climbing a steep, snow-covered mountain slope. The climber is wearing dark clothing, blue pants, and a red and black backpack. They are using ice axes and crampons to ascend the slope. The background shows a clear blue sky.

10. BE DETERMINED

1. CONSIDER THE SCOPE

2. KNOW YOUR STACK

3. UNDERSTAND YOUR WEAKNESSES

4. POWER UP!

5. USE TOOLS EFFECTIVELY

6. SCAN > VERIFY > EXPLORE

7. BE (OCCASIONALLY) EVIL

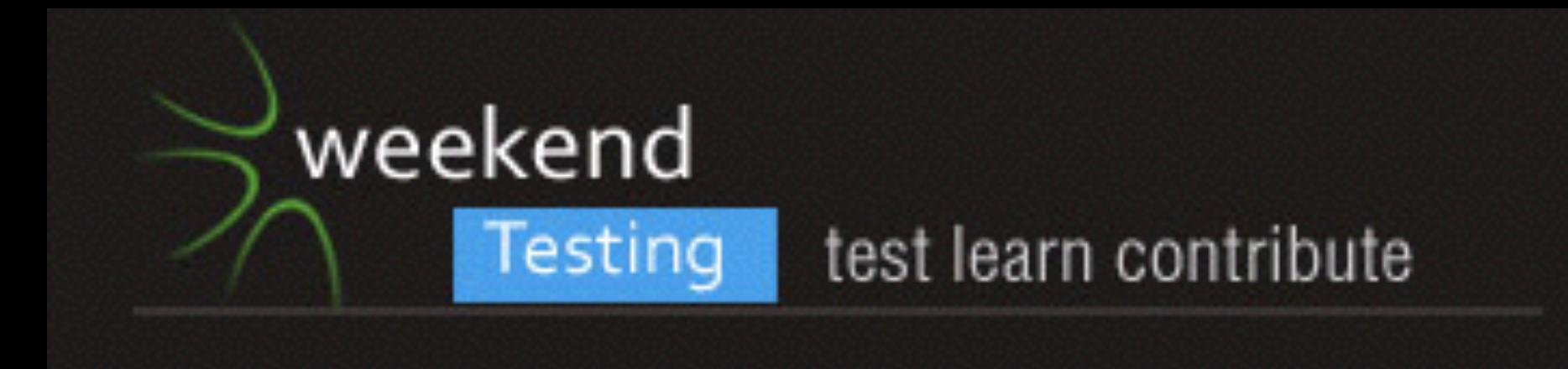
8. DON'T DO IT ALONE

9. BE CLEAR, BE HEARD

10. BE DETERMINED

MANY THANKS!

QUESTIONS?



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