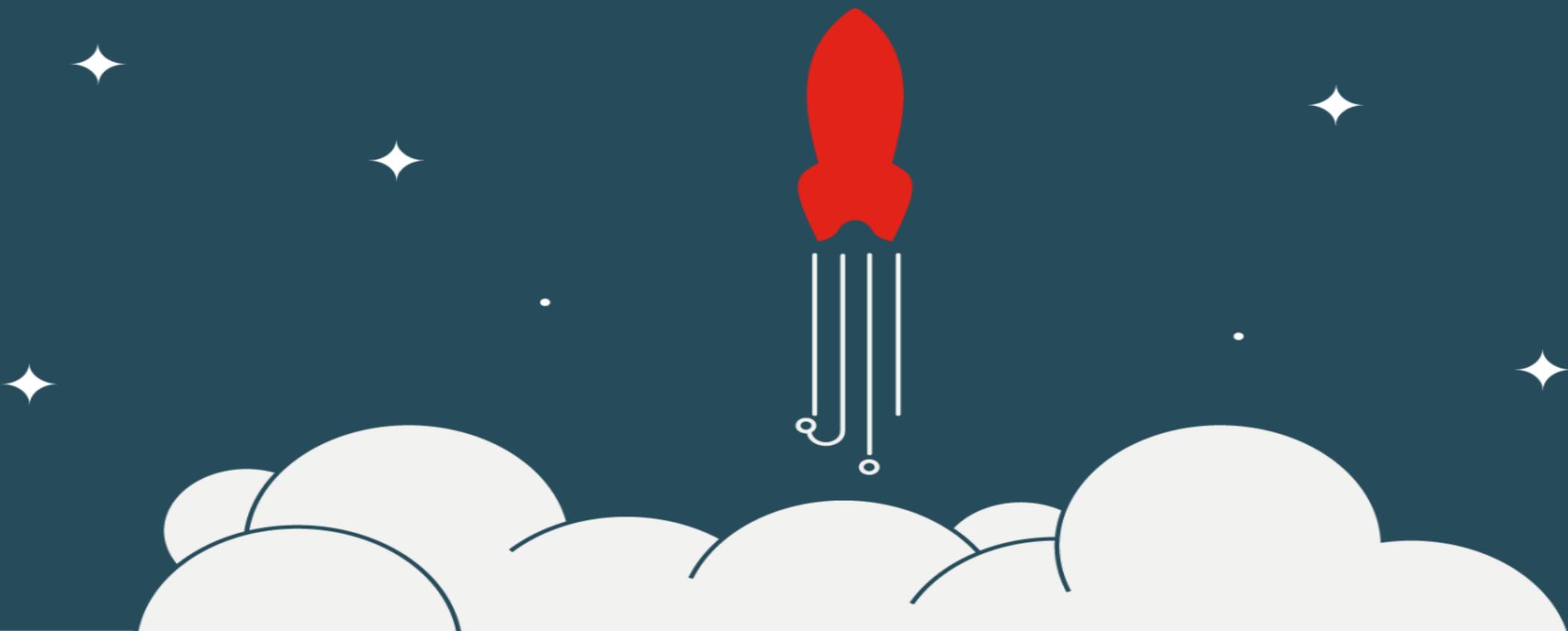




Hacking for Fun and Profit *Legally*



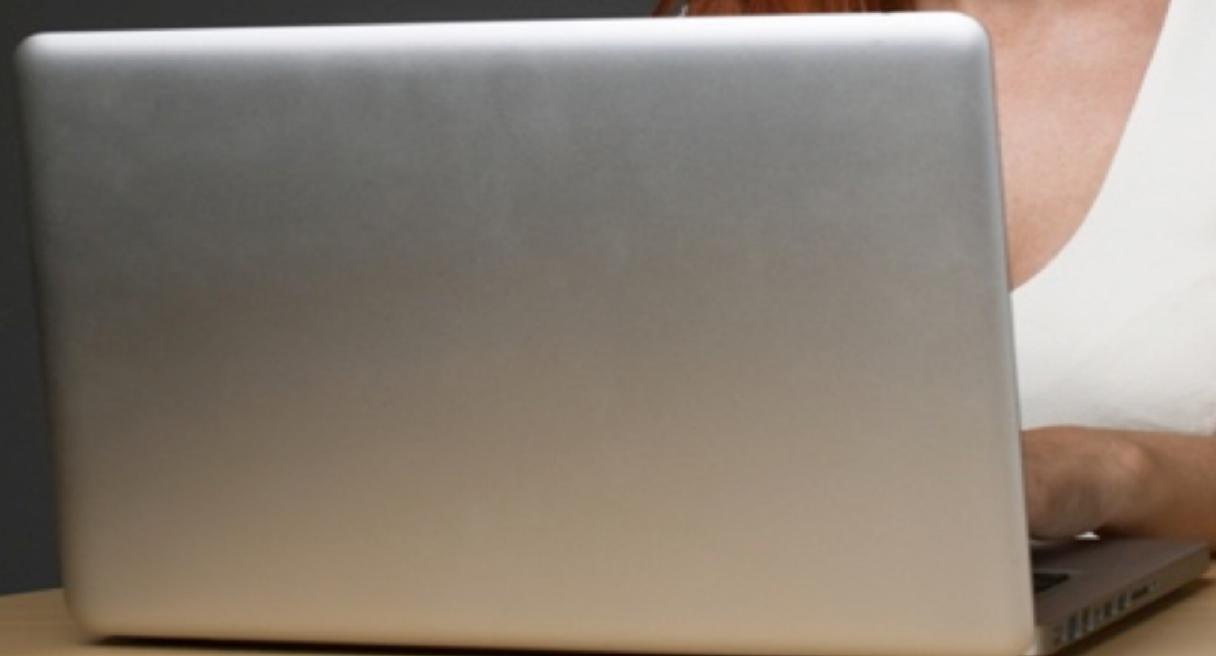


About Me

CTO, TWIP & ROCeteer
20+ Years Customer Experience Design
Advisory Board Chair, UNLV Engineering
Early Employee Evernote & Spirit Airlines
2015 Female Executive of the Year
2015 & 2016 Mentor/Coach of the Year
Columnist for Inc, Forbes & Tech.co



What is hacking, anyway?





To write computer programs for enjoyment.
To gain access to a computer - illegally.

- *Merriam Webster*



A photograph showing a person's hands typing on a silver laptop keyboard. The laptop is open and positioned on a light-colored desk. In the foreground, there is a small, dried, branching plant specimen. The background is slightly blurred, showing an office environment with cubicles and fluorescent lighting.

Hacking is not limited to
purely software environments.



Motivations of a Hacker

Personal gain

Activism or moral objection

Authentic concern for security and protection



Hacker Profile: Black Hat

Considered the “villain” type of hacker
Seeks access to systems without gaining permission
Motivation is for personal benefit



Hacker Profile: White Hat

“Vigilante” type of hacker
Seeks out security flaws and vulnerabilities
Motivation is to benefit the community



Hacker Profile: Grey Hat

Utilizes ideologies from black and white hat to satisfy personal endeavors

Most often faced with ethical dilemmas when exploits are discovered

Motivation is to protect the common good – based on their own perception of what it should be.



Black hat: “*It’s their own fault.*”

White hat: “*Yeah, but it’s our responsibility to help them.*”

Grey hat: “*I want to help, but I don’t want to get in trouble...*”



What's Ethical Hacking?

It is Legal.

Permission for it is obtained from the target system.

It is part of an overall security program.

Through it, you identify vulnerabilities visible from the Internet at particular point of time.



**Never hack into a system that you do not own
or have permission to access.**

**Do not attempt to find vulnerabilities in a
system that you do not own or have
permission to access.**



Options for Proper Practice

Download any open-source code onto a server/system under your control.

Only try to find vulnerabilities in a system that has a bug bounty program.

Become an academic (specializing in vulnerability analysis).



Ethics Test

In case you do find a vulnerability in software, what is your responsibility?

1. Tell the world
2. Tell the company/group responsible for the software
3. Sell the information to the grey or black market
4. Personal decision
5. First disclose it to the company, then release the information publicly



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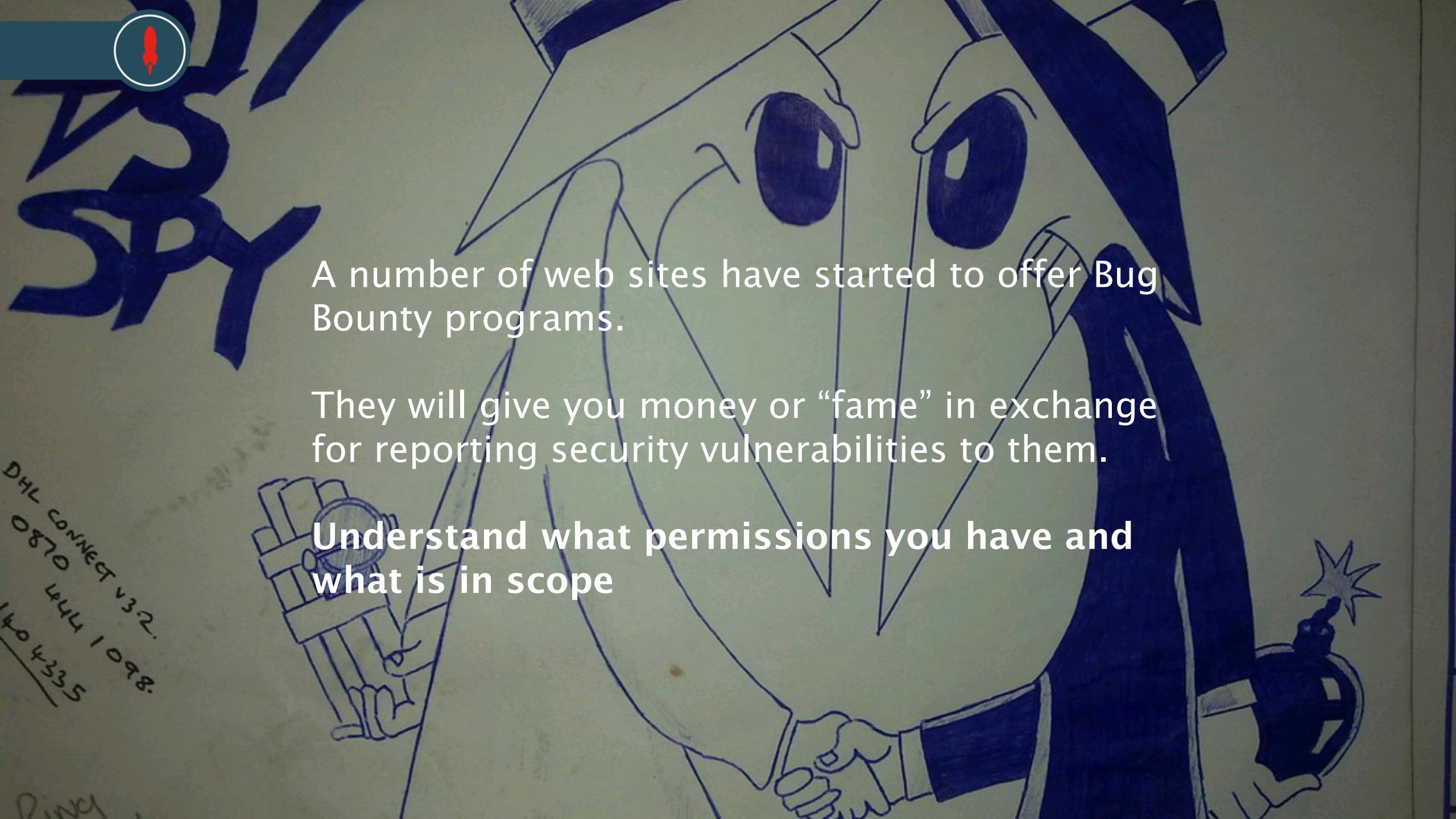
Getting hired as a Security Researcher



Pros: "I want somebody who can find problems before the bad guys do"

Cons: "I don't want to hire an arsonist as a Fire Marshal"

How would you fire a hacker?

A stylized illustration of a man in a dark suit and tie, carrying a briefcase and a bomb. A hand reaches out from the bottom right to shake his hand. The background is a textured grey.

A number of web sites have started to offer Bug Bounty programs.

They will give you money or “fame” in exchange for reporting security vulnerabilities to them.

Understand what permissions you have and what is in scope



Penetration (Pen) Testing

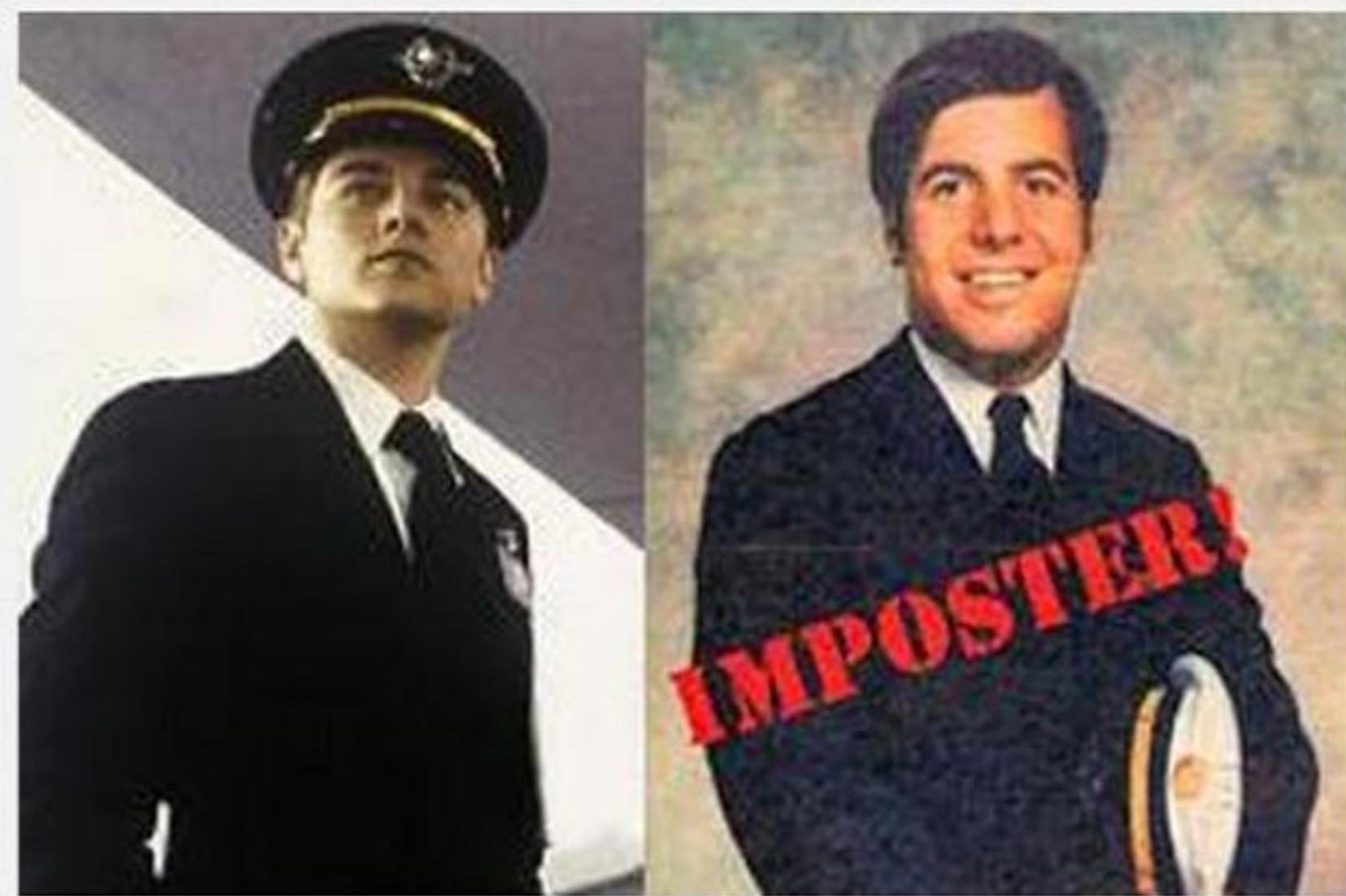
Vulnerability analysis followed by exploitation

Assumptions and hypothesis derived from the analysis are verified on the field

It is usually "black-box"

Part of the (larger) security auditing/analysis process

Pentest/fix as a cycle is NOT a good way to ensure the security of a system



Leonardo DiCaprio - Frank Abagnale Jr.





→ C ⌂ https://www.facebook.com/zuck

Mark Zuckerberg



Mark Zuckerberg 

Timeline About Photos Friends More ▾

Follow Mark to get his public posts in your news feed.



18,821,144 Followers

About

Founder and CEO at Facebook February 4, 2004 to present

Studied Computer Science at Harvard University Past: Phillips Exeter Academy and Ardsley High School

Lives in Palo Alto, California

From Dobbs Ferry, New York

Khalil shared a link, about a minute ago

Dear Mark Zuckerberg,

First sorry for breaking your privacy and post to your wall , i has no other choice to make after all the reports i sent to Facebook team .

My name is KHALIL, from Palestine See More

f Search for people, places and things

Search

 Khalil ► Mark Zuckerberg
47 minutes ago • *

Dear Mark Zuckerberg,

First sorry for breaking your privacy and post to your wall , i has no other choice to make after all the reports i sent to Facebook team .

My name is KHALIL, from Palestine .

couple days ago i discovered a serious Facebook exploit that allow users to post to other Facebook users timeline while they are not in friend list .

i report that exploit twice , first time i got a replay that my link has an error while opening , other replay i got was " sorry this is not a bug " . both reports i sent from www.facebook.com/whitehat , and as you see iam not in your friend list and yet i can post to your timeline .

this is the last email i sent including the Facebook team replay .
<http://pastebin.com/zzi2WYK6>

i appreciate your time reading this and getting some one from your company team to contact me .

sincerely
khalil

Hi Khalil, I am sorry this is not a bug. Thanks, Emrakul Securit -
[Pastebin.com](http://pastebin.com)
pastebin.com

A close-up photograph of a person's hand wearing a dark suit jacket and a striped tie, holding a white rectangular card with black text. The background is blurred.

**So What Does
This Mean for
The Job Market?**



**Certification + Motivation
= Asset**





CISE (Certified Information Security Expert)
CEH (Certified Ethical Hacker)
CHFI (Computer Hacking Forensic Investigator)
SANS GIAC
Mile2







Black Hat





White Hat



Grey Hat





Resources

Hackthissite.org

Hackaday.com

Breakthesecurity.com

Evilzone.org

Hackinthethebox.org

Happyhacker.org

Cybrary.it

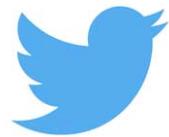
bugcrowd.com/list-of-bug-bounty-programs



I ❤️ Feedback



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