

Bug Bounty: A Hunter's Perspective

Miftahul Huq (discord:arpping#5837)



Agenda

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- 03 Why hunt for bug?
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- 05 How to get started
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~\$ Whoami

- Miftahul Huq
- 4th yr, BS/MS Cybersecurity Student @ RIT
- Part-time bug hunter (3 months)
- Hobby: videography



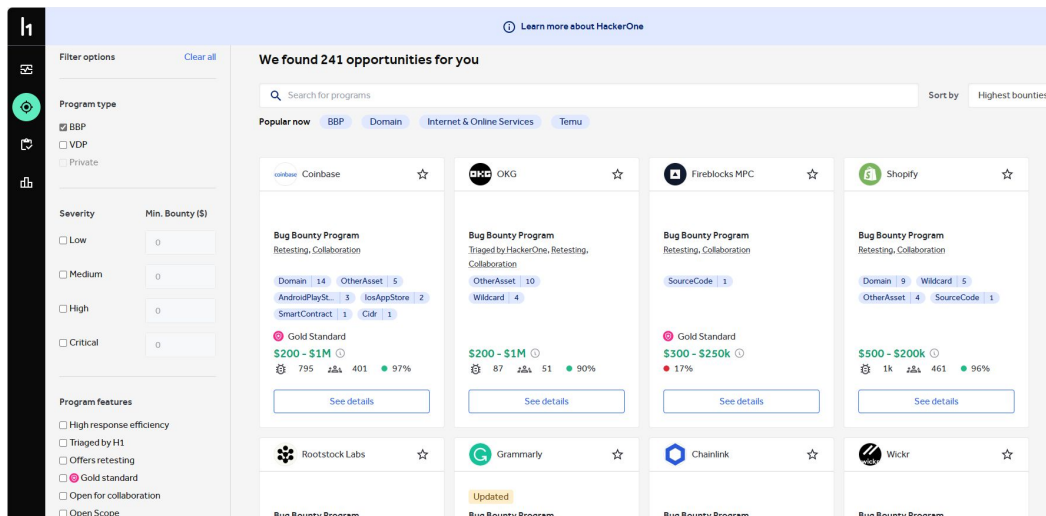
What is Bug Bounty Program (BBP)?

- A program where bug bounty hunters earn compensation, or bounty, for revealing security gaps of a company.

- **Types of Bug Bounties:**

- Web App
- Mobile App
- Network infrastructure
- Hardware
- API Security

- Hosted via a BBP platform



Top BBP Platforms



Synack®



Why hunt for bugs?

- Source of income
- Hack legally
- Recognition, prestige, and competition



Types of bug hunters

- All these methods works successfully.

Fully automated
and
unauthenticated

Fully manual

50/50

0-day all day

Best!



How to get started

Just like any other things in life, you just gotta start doing it:

- Create an account on a BBP platform.
- Pick a BBP from a company of your choice.
- Use a hunter's method to start hunting for bugs.



Learning the basics

Top platform to learn from:

- Hackerone capture the flag
 - Private invitation after completion
- WebSecurity academy (by Portswigger)
- PentesterLab



Others:

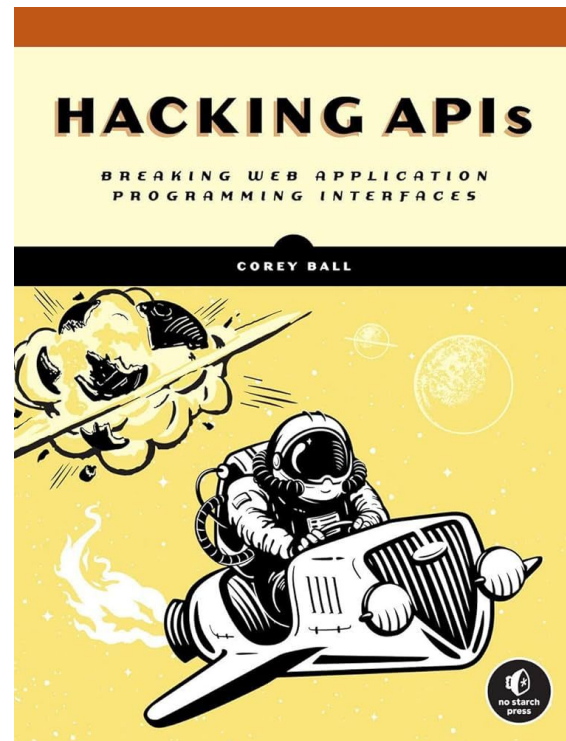
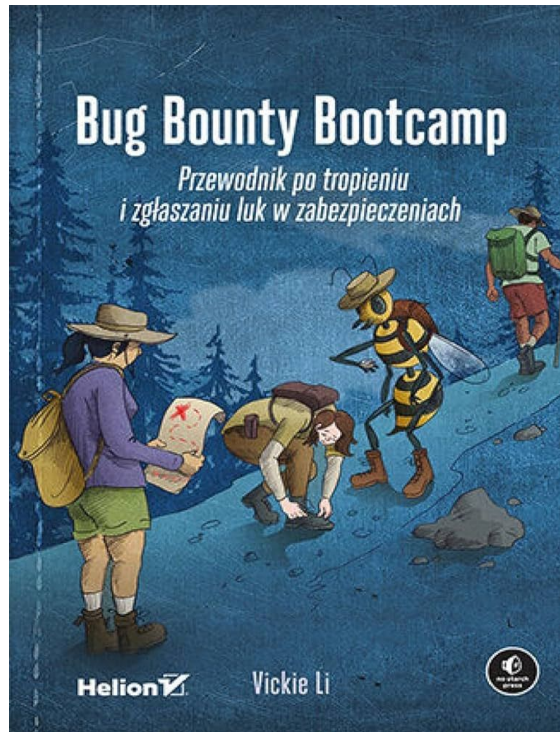
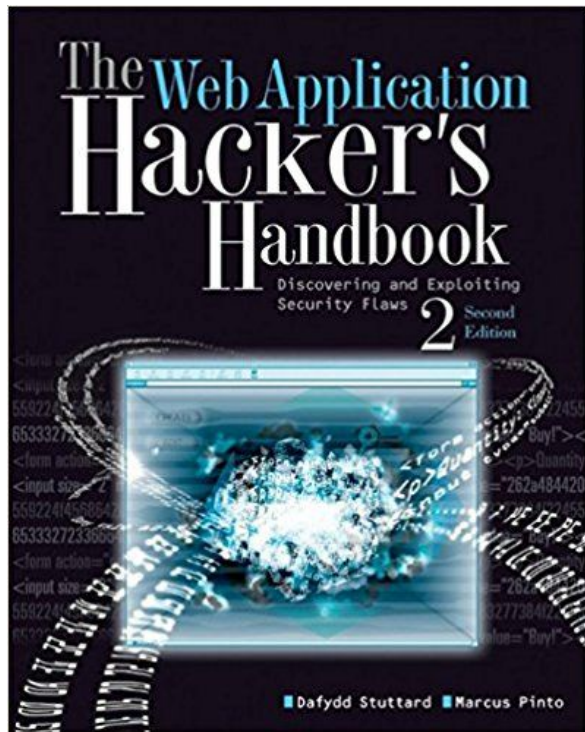
- HackTheBox
- TryHackMe



HACKTHEBOX



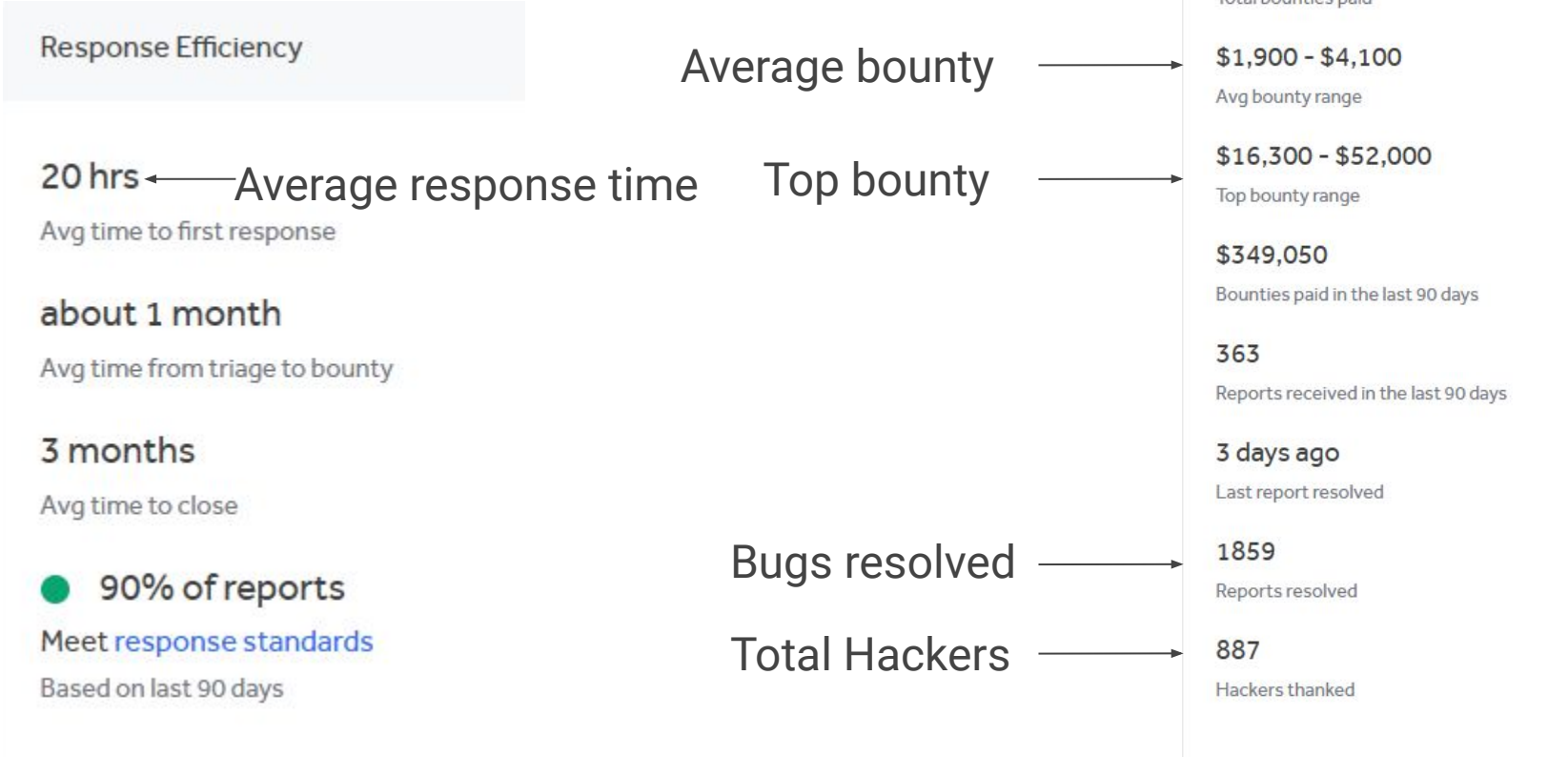
Some books to consider are...



Tips for bug hunting

How to choose a BBP?

- Go for high paything programs



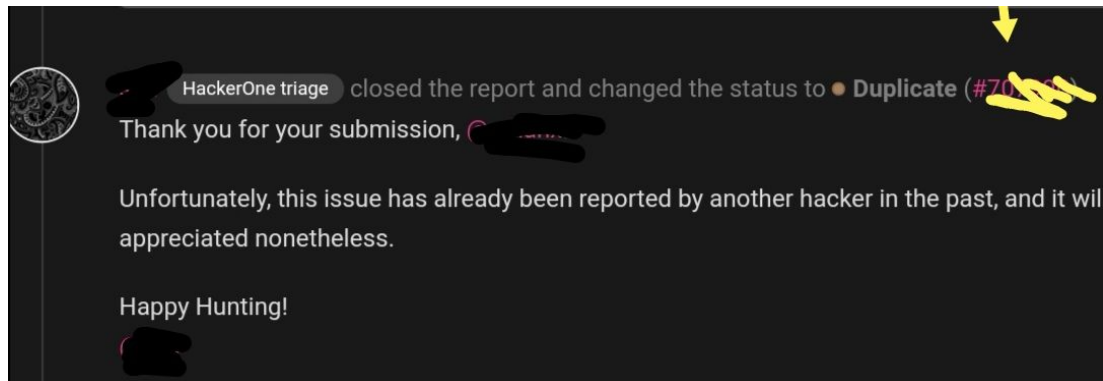
Go big or go home!

- Focus on high severity security vulnerabilities:

P1 - Critical	P2 - High
<ul style="list-style-type: none">❖ Remote Code Execution (RCE)❖ SQL Injection (SQLi)❖ Server-Side Request Forgery (SSRF)❖ Authentication Bypass❖ Disclosure of Secrets❖ Command Injection	<ul style="list-style-type: none">❖ Stored XSS❖ Admin privilege escalation❖ OAuth misconfiguration❖ Sensitive information disclosure❖ Insecure Direct Object Reference (IDOR)

Why?

- Avoid duplicates and related frustration
- High bounty or reward
- Quick resolution by the company

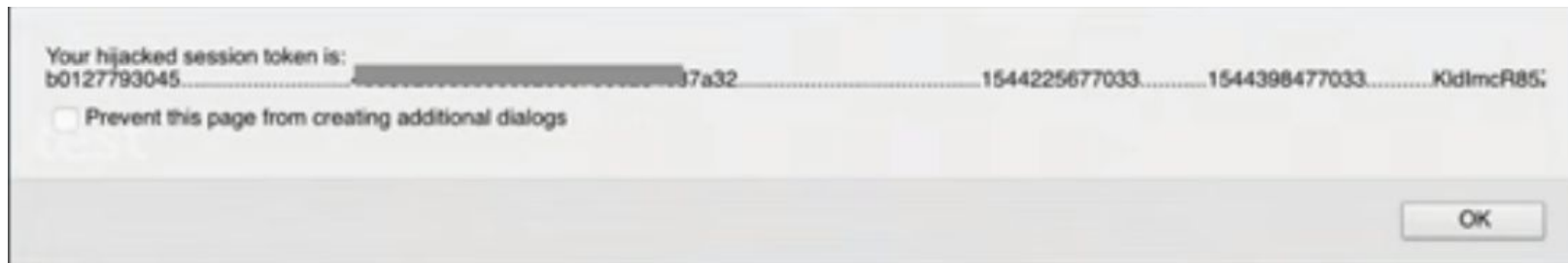


Go above and beyond

- Create accounts
- Subscribe to paid plans
- Complete any setup complexity
- Order hardware devices
- Read the documentation
- etc...

Security Impact

- More impact means higher bounty



XSS - Hijacking user's session token



VS

XSS - Simple alert popup

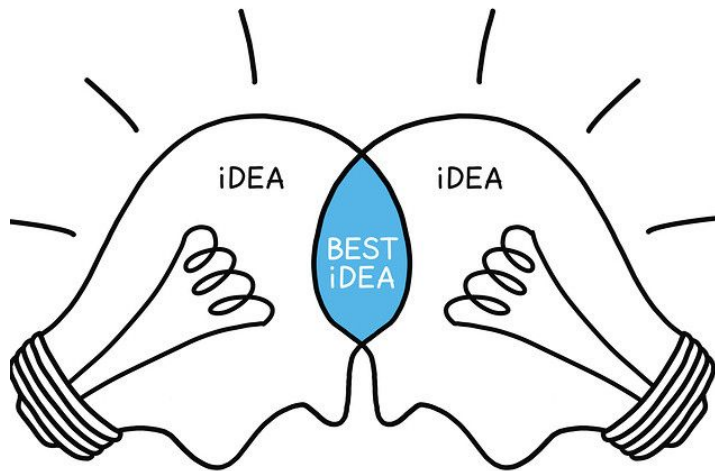


Other tips

- Automate reconnaissance or information gathering
- Automation should not replace manual testing
- Chain vulnerabilities for higher impact
- Save the low hanging fruits for future chain attack

Collaboration

- Find higher impact bugs
- Different skill set
- Get help if your stuck
- Upfront agreement on bounty or resources
- BBP platforms helps with bounty split and collab



Reality of bug hunting

- Requires time, consistency, persistence and patience.
- Depending on the person, it might be steep learning curve.
- Drain mental health, and affect physical health if you don't exercise.



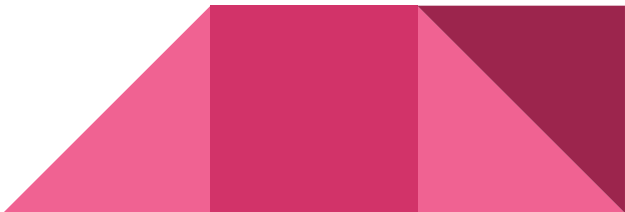
Recommendation

- Have a set time when you can do bug hunting
- Take regular breaks
- Eat healthy
- Exercise
- Sleep



References

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Any Questions or Comments?