



Bug Bounty

[Life of a Pentester]

root@bughunter:

whoami?

- Dharmin Suthar
- Cyber Security Analyst & Researcher
- CEH, CEI, CEISH, CPT, CCSE
- Active : Central Bureau of Investigation (CBI)
 - : Anti Terrorism Squad (ATS)
 - : Boston University (Security Researcher)
- Chapter Leader & Partner | 2019 : UK Innovation Department
- Secured : Google, Yahoo, Facebook, Paypal, Microsoft, Nokia, Pusher, Mozilla, etc

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Agenda?

- Introduction
- Platforms
- Target
- Attacks
- Tools
- Reports
- Rewards
- Important Things



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Bug Bounty?

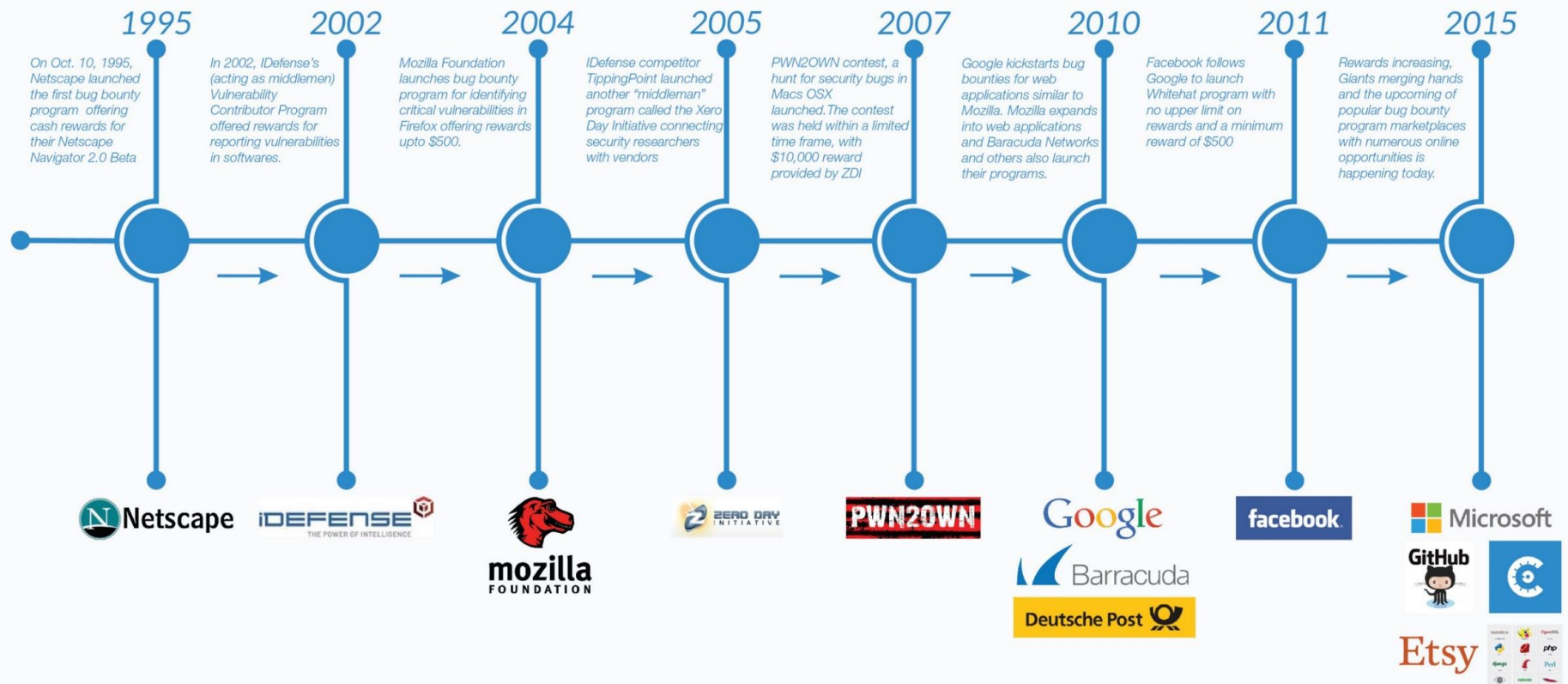
- What is Bug Bounty ?
- I am New Here, how should i start ?
- How should i take it forward ?
- How should i become pro ?
- what should i do when i am pro ?

root@bughunter: What is Bug Bounty ?

- also called as VRP (Vulnerability Reward Program)
- Paying rewards to independent security researchers for finding vulnerabilities in their products.

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History?



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Process

Target

Information
Gathering

Penetration
Testing

Report

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Platforms

- Facebook, Google, Twitter, Yahoo, PayPal etc.
- Platforms: HackerOne , Bugcrowd, Cobalt, Synack etc.

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Target

- Google Trends / Google Dorks
- Pick any company.
- Learn about it thoroughly.
- Its services.
- All subdomains
- All mobile applications.
- Monitor any changes.
- Read Program rules carefully.



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Attacks

- XSS - Cross Site Scripting
- SSRF - Server Side Request Forgery
- Cross Site Request Forgery
- Local File Inclusion
- Remote Code Execution
- Information Disclosure
- Sql Injection
- Insecure Direct Object Reference



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Tools

- BurpSuite
- Acunetix
- Owasp Zap
- Reverse IP Lookup
- Beef
- WPscan / JoomScan
- HackBar (Extension)
- Wfuzz



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Report (POC)

- Title
- Description of bug
- Step by step instruction to reproduce the bug
- Screenshot / Videos
- Impact
- Suggestion



root@bughunter: Report (POC Format)

- Vulnerability Name
- Vulnerability Description & Impact
- Vulnerable URL
- Vulnerable Parameter
- Payload Used
- Steps to Reproduce
- How to Fix (Recommandation)
- Proof of Concept(Screenshot)



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Rewards

- Money
- Hall Of Fame
- Swag Pack (T-shirt, bag, book)
- Appreciation Letter
- Certificate
- Nothing



root@bughunter: **I want more money..**

- Look out for less exposed areas of site.
- Injection Attacks _ everyone doing it.
- Authorization issues are hard to find, less duplicate.
- Privilege escalations on a least exposed entity in the site have good chances of hitting a good bug.

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Learning Source

- <https://www.owasp.org/>
- <https://hackerone.com/blog/what-great-hackers-share/>
- <https://forum.bugcrowd.com/>
- The Hacker's Handbook
- Proof of Concepts - h1.nobbd.de/
- JavaScript
- Online Tutorials : Cybrary, Udemy, Pluralsight, etc.

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Never Ever

- I want money, I don't care about your policy.
- But, that X company gives money for this.
- I will hack you to the death.
- Don't use the repeater, I love Burp Scanner, Acunetix.
- I love cookies & session related bugs and version disclosure.
- SQLmap is good only when risk=3

root@bughunter: Have Some Patience

- Duplicate
- Wait for response time
- Forget about submission.
- Learn and find new Bugs
- Find New target.
- Go as deep as possible (Chain attack)
- NEVER Ever run a Scanner.
- Do Manual testing.



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Private Target

- site:ohmylovelywebsite.com –repetitive_pages -www -
- forums -answers -discussions
- inurl: src | path | link | url
- Filetype:asp | aspx | jsp | jspa | php
- Intitle: bitcoin | money

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Online Tools

- Shodan - Computer Search Engine
- NerdyData - Source Code Search Engine
- Bing: IP Search
- Yandex: Awesome Search Engine
-



root@bughunter: **How should I become PRO?**

- Follow Top Researchers
- Read blogs
- Read about vulnerability
- Create your own logics
- Follow twitter

