



HACK CLUB



angelhack

Campus Hub NIT Sri.

# ROADMAP TO CYBERSECURITY



# whoami

- Student @ NIT Srinagar
- CyberSec Enthusiast
- Stock Market
- Blogger
- Movies, Songs
- CTF Player
- Hacking Hardwares
- OSINT for Fun
- HiddenEye Developer
- Evilginx2 Contributor
- TryHackMe Top 1%
- HackTheBox : Hacker

## CERTIFICATIONS

THM - Offensive Pentesting  
THM - Web Fundamentals  
THM - CompTIA Pentest+  
Pentester Lab - Intro Badge  
Pentester Lab - PCAP Badge  
Pentester Lab - Recon Badge  
Pentester Lab - Unix Badge

Practical Buffer Overflow For OSCP  
GPCSSI 2021  
eJPT (Upcoming)  
CEH Practical (Upcoming)



Udayveer Singh  
@an0nud4y

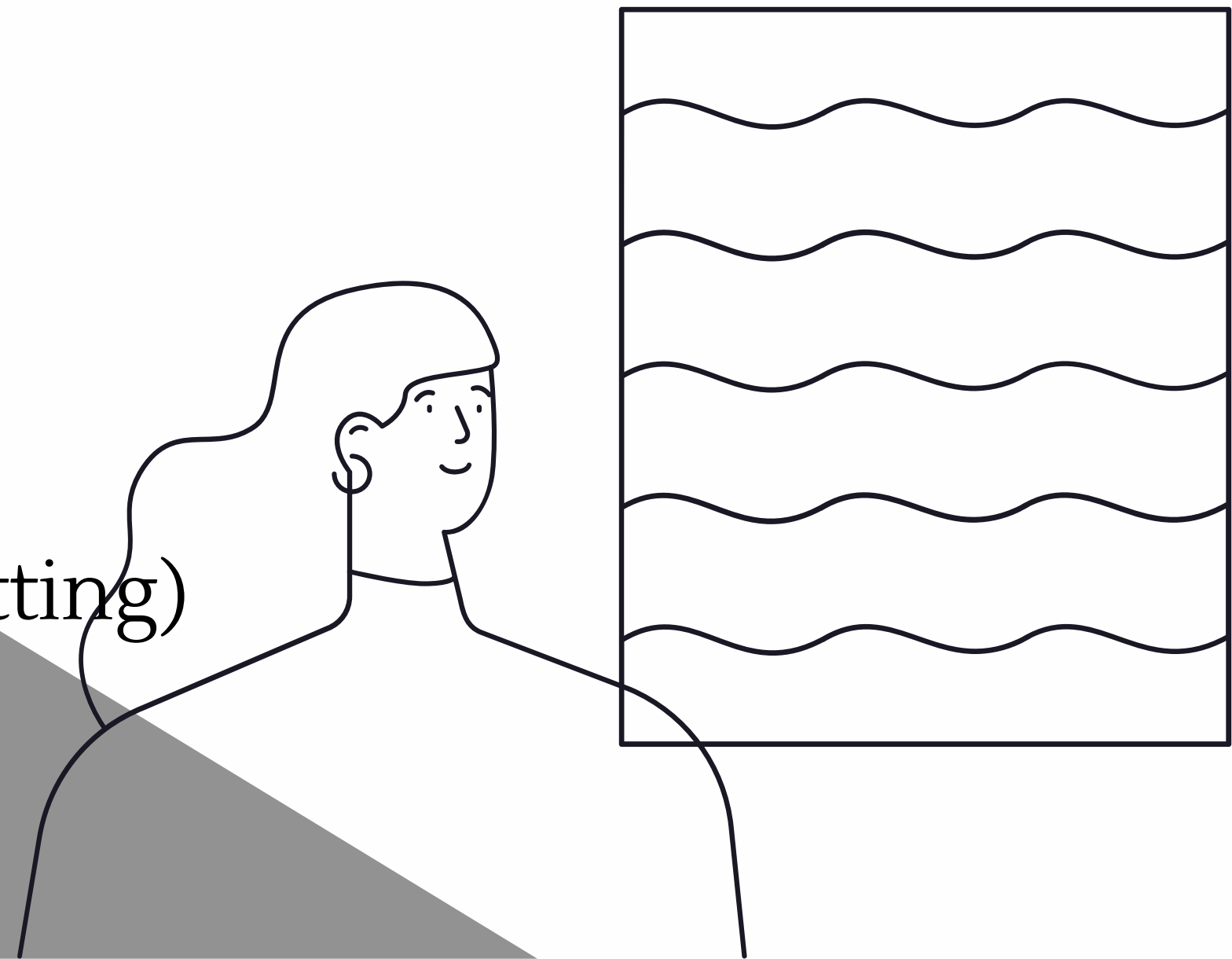
## CONTACT

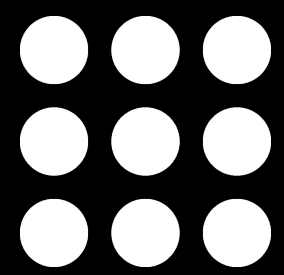
Twitter : @an0nud4y  
Insta : @its\_udy  
Mail : anonud4y@gmail.com

To Know Multiple Platform Profiles  
[https://linktr.ee/its\\_udy](https://linktr.ee/its_udy)

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- Making Money in Cybersec
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# Intro to Cybersecurity

## What is CyberSecurity ??

Cybersecurity is the art of protecting/recovering networks, devices, and data from unauthorized access or criminal use and the practice of ensuring confidentiality, integrity, and availability of information. (According to CISA)

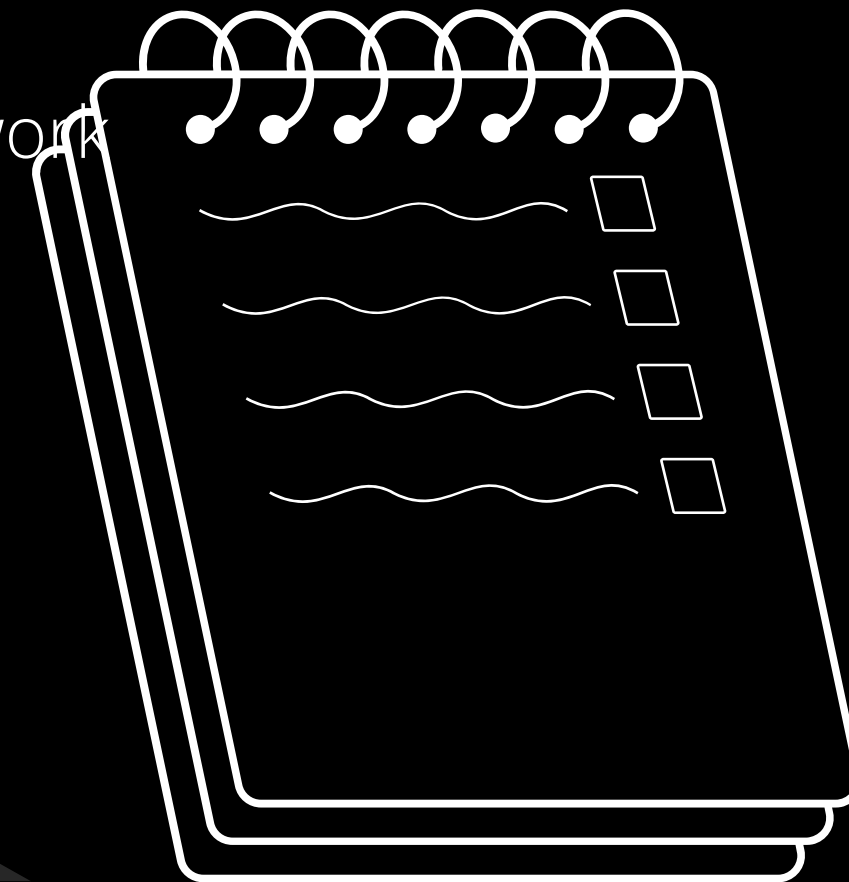
## Why we need Cybersecurity ??

- To Reduce the Risk of Data Breaches and attacks from Black Hat Hackers (APT and Individual Hacking Groups).
- To Prevent Unauthorized access to sensitive information
- To Prevent Services Disruption (Like denial-of-service attacks)
- There are lot more reasons like (Ensuring Business continuity, Protecting from network exploitations from outsiders)

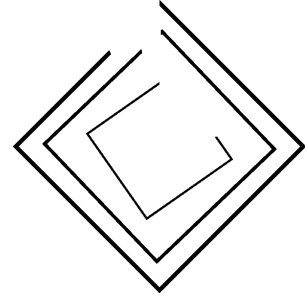
## Reference Blogs

<https://medium.com/@IamLucif3r/what-is-cyber-security-268cccd0f4eb>

<https://medium.com/beyondx/what-is-cybersecurity-64a5f61cd0e3>







# Types of Job Roles

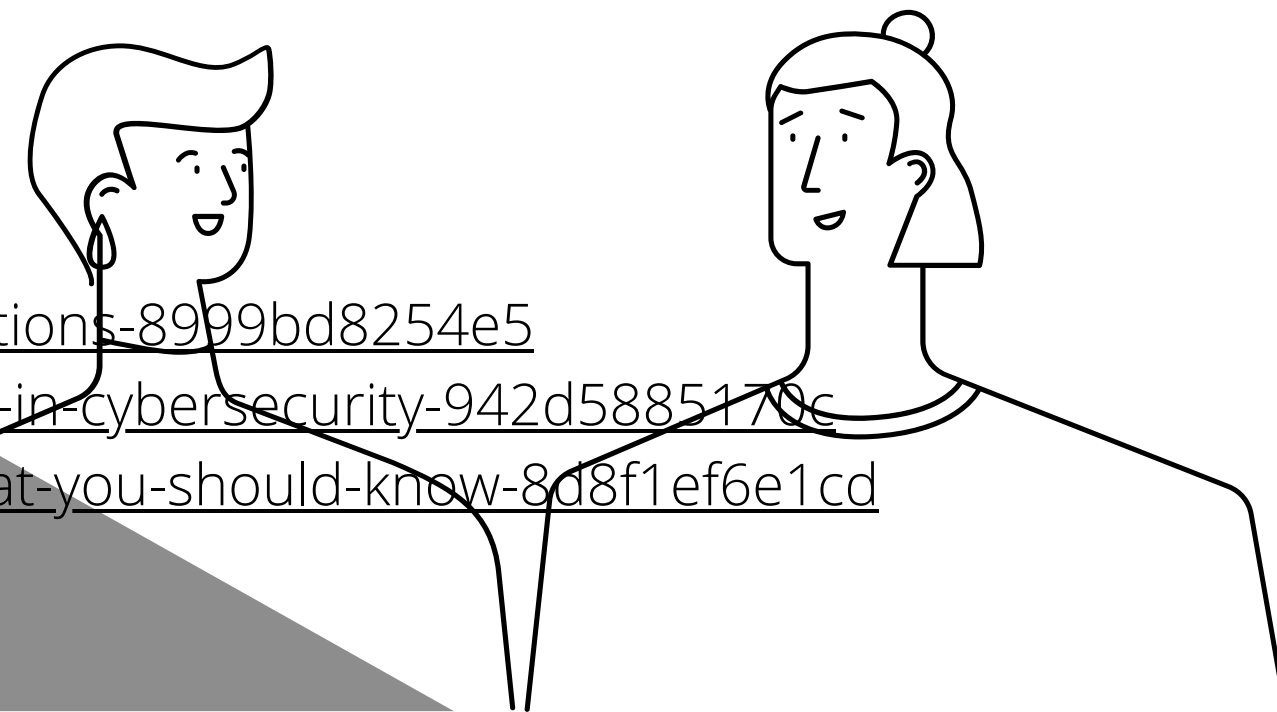
- Ethical Hacker/Penetration Tester
- Chief Information Security officer (CISO)
- Malware Analyst
- Exploit Developer
- Incident responder / Forensic Analyst
- Cryptographer
- Security Architect
- Security Engineer
- Security Analyst
- Security Consultant
- Security Researchers

## References

<https://vickieli.medium.com/cybersecurity-careers-your-options-8999bd8254e5>

<https://somyt536.medium.com/what-are-the-various-job-roles-offered-in-cybersecurity-942d5885170c>

<https://medium.com/@shankarbala95/cybersecurity-its-various-roles-that-you-should-know-8d8f1ef6e1cd>







# Let's Understand these Job Roles ...

## Ethical Hacker / Penetration Tester

- Hacking for good with written permission.
- Simulation Attacks on Network.
- Tries Not to Harm the infrastucture during Live attacks.
- Takes care of informative to High impact bugs.
- Provides a full test report and finding (Report writting).
- Need Good Communication skills.
- Part of Red team

## Chief information Security Officer (CISO)

- Head of Security Team
- Directs the Strategy, operations & Budget for security.
- Responsible for major Security Decisions

## Malware Analyst

- Identifies malware in a Computer or Network.
- Reverse Engineer malware to understand its functionality.
- Identifies ways to detect and prevent the malware from spreading.







# Let's Understand these Job Roles ...

## Exploit Developer

- Uses research and findings to create exploit codes to exploit the vulnerabilities.

## Incident Responder / Forensic Analyst

- Helps to analyze/recover erased/encrypted data.
- Analyzes and Monitors all network activities and logs.
- Helps to identify intrusions or suspicious activities inside network.
- Part of Blue Team.
- Works with Red team to fix the Bugs and Vulnerabilities

## Cryptographer

- Develops algorithms and security systems to encrypt Confidential information.
- Encryption helps to share Confidential data from one to another end without fear of compromising.







# Let's Understand these Job Roles ...

## Security Architect

- Develops and organizes secured computer systems and networks to protect confidential information from hackers.

## Security Engineer

- Liable for testing and screening various security software employed, for improving organizational security.

## Security Analyst

- Performs several security related operations such as password complexity, data loss mitigation, and other security practices.

## Security Consultant

- Position Mostly found in small organisations.
- Helps to strengthen security , by providing consultation and technical help.







# Let's Understand these Job Roles ...

## Security Researchers

- They help to predict the future vulnerabilities by tracking current vulnerabilities.
- Research on products to find unknown or zero day vulnerabilities, which may be actively being exploited.

*To Know about Life of a Security Researcher , Check out this blog*

<https://cybersecurity.att.com/blogs/security-essentials/the-life-of-a-security-researcher>



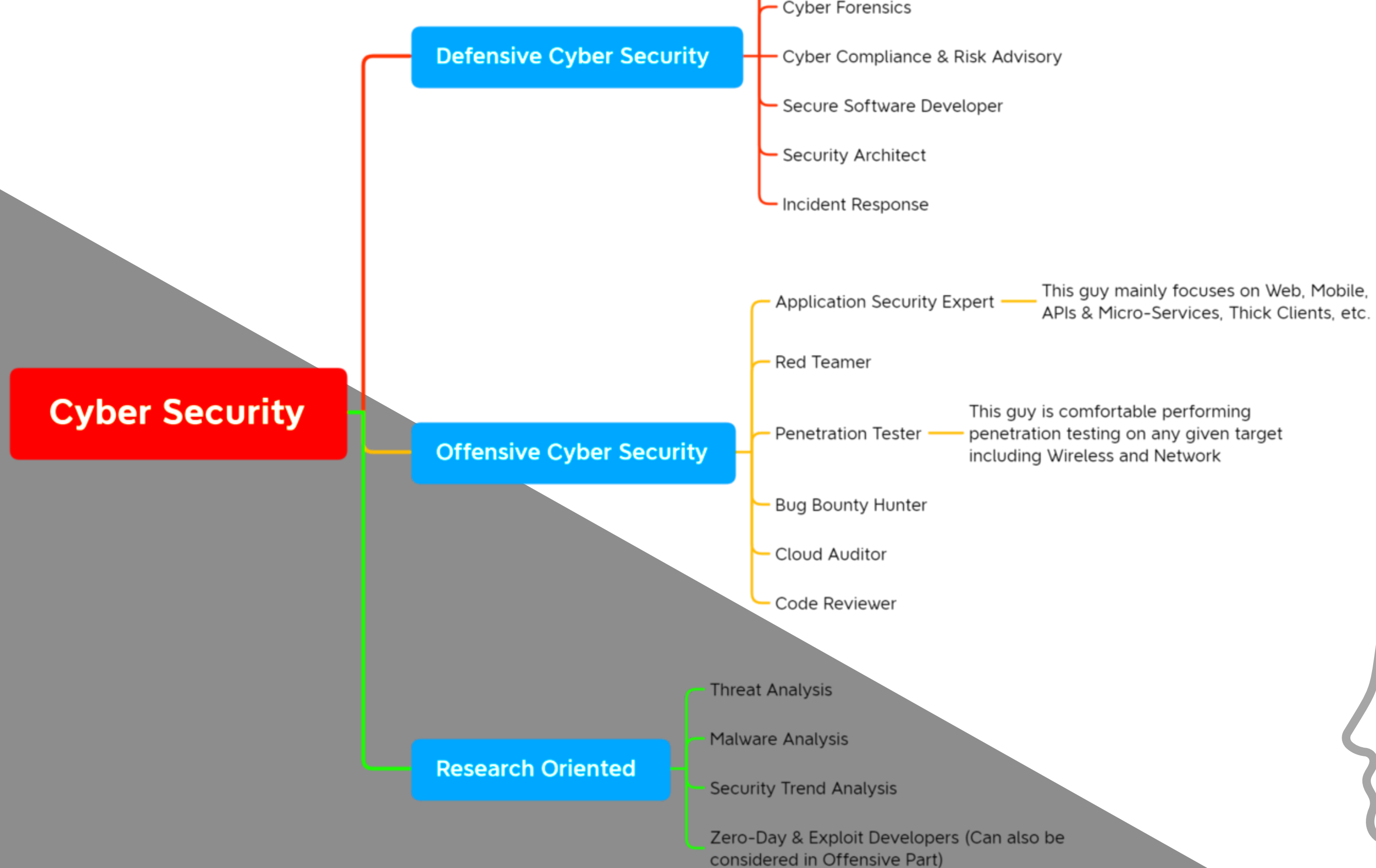


# Mindmap By: Harsh Bothra



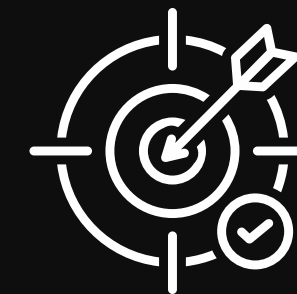
**XMind**  
Trial Mode

- Reference: <https://hbothra22.medium.com/how-do-i-get-started-in-cyber-security-my-perspective-learning-path-b53065189ba5>
- Learn365 : <https://github.com/harsh-bothra/learn365>



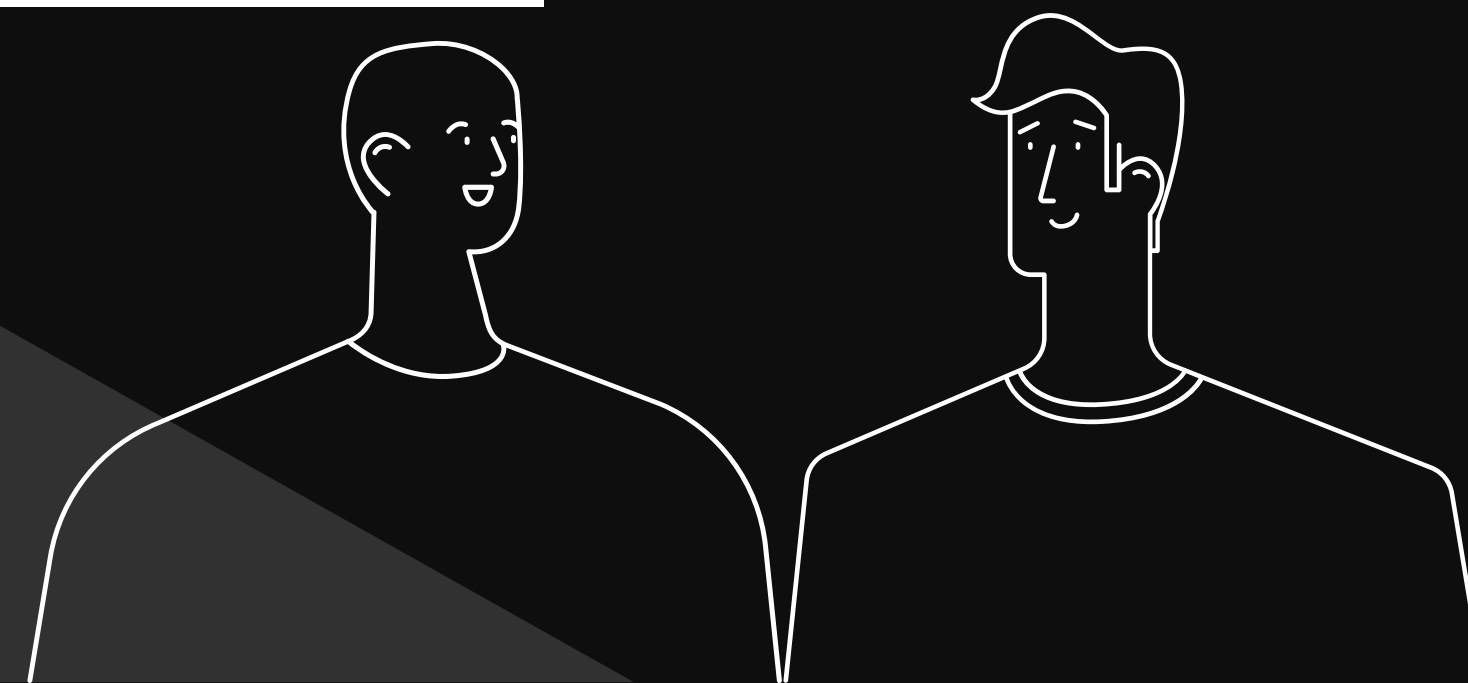


# Roadmap & Resources



## List of Resources

1. [TryHackMe Pathways + Labs](#)
2. [HackTheBox Machines](#)
3. [HackTheBox Academy Modules](#)
4. [TCM-Sec Courses](#)
5. [Tiberius Privesc Courses](#)
6. [Naga Sai Nikhil Courses](#)
7. [Portswigger Academy](#)
8. [PentesterLab Badges](#)
9. Bug Bounty Courses By [XSSRAT](#) and [Offensive Hunter](#)
10. [Pentester Academy](#)
11. [Hacker101 Resources](#)
12. [OWASP TOP10](#)
13. [Google](#)





# 🎯 Roadmap & Resources

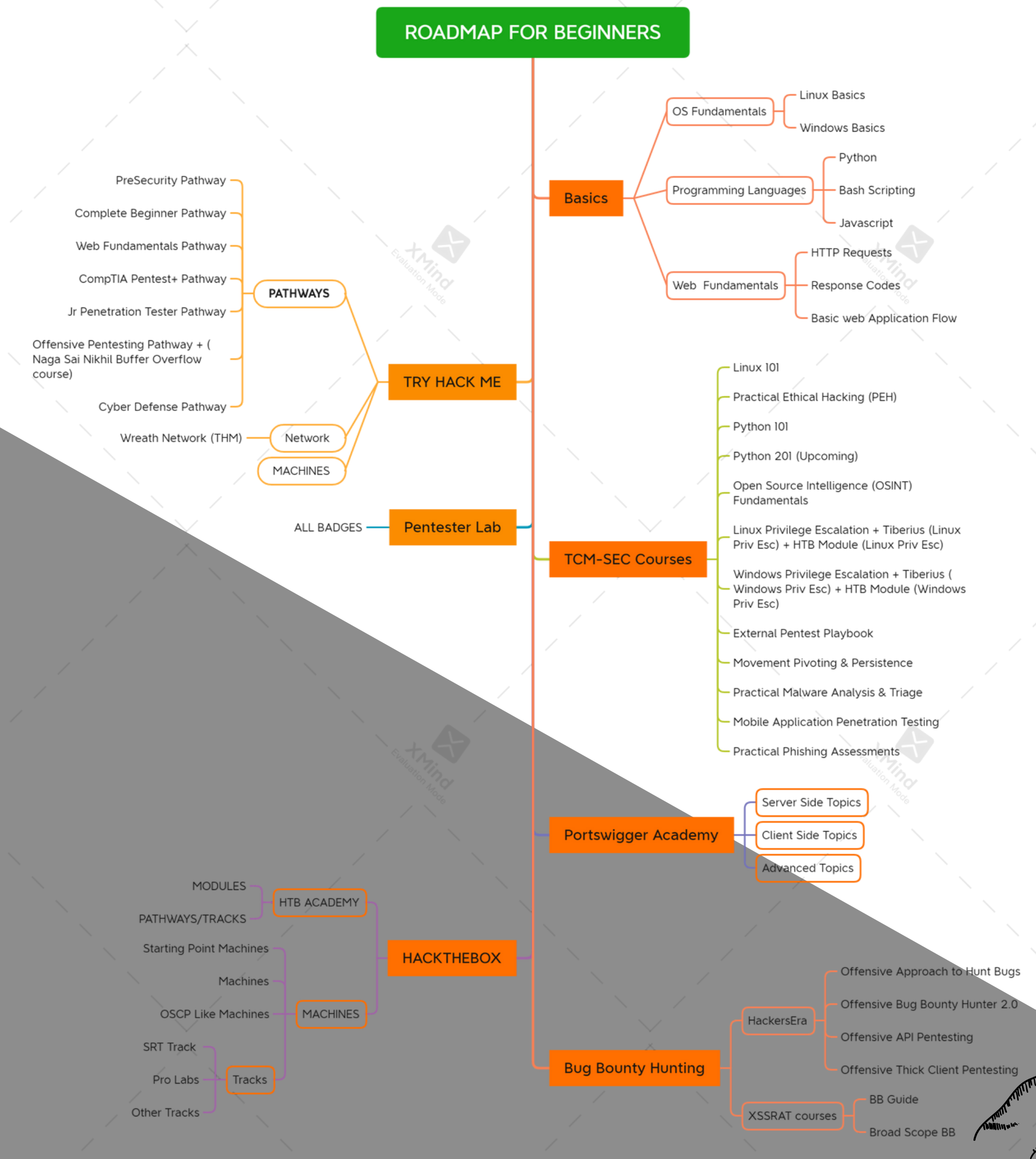
## Extra Resources

- [BugCrowd University](#)
- [Nahamsec BB\(BugBounty\) Roadmap](#)
- [Medium Blog Writeups](#)
- [HackerOne BB Disclosed Reports](#)
- [Zseano's BB Methodology](#)
- [Pentester Land](#)
- [BugBountyHunter](#)
- [Intigriti Hackademy](#)

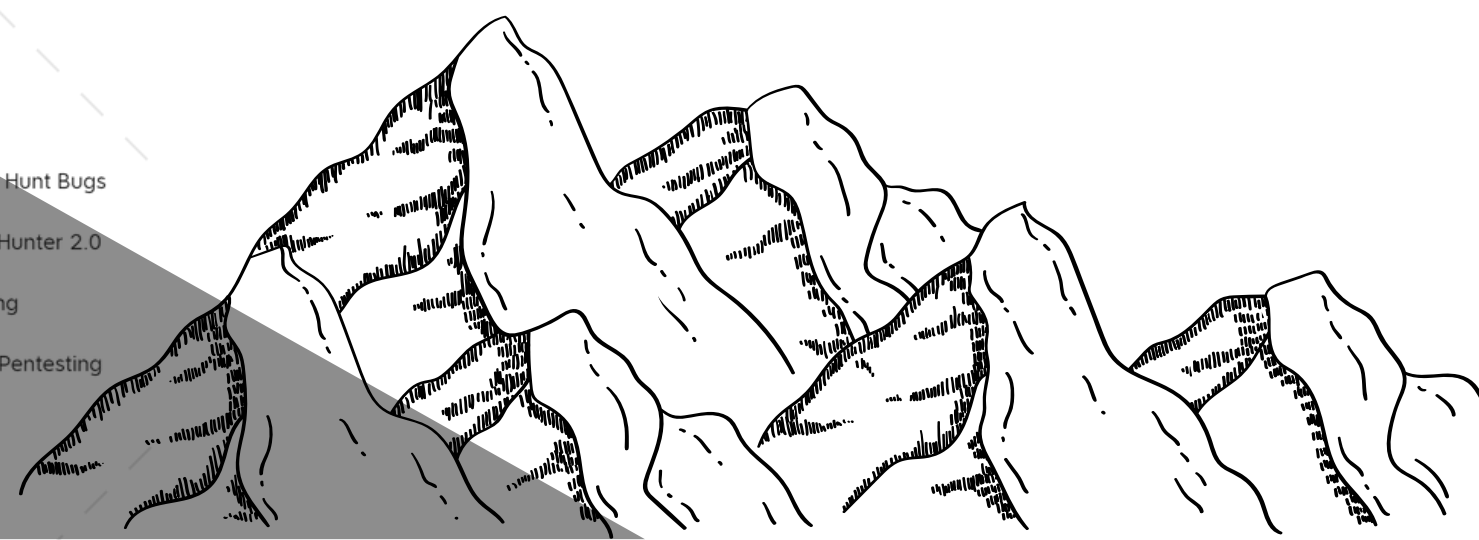
## Reference

- <https://securitytrails.com/blog/popular-bug-bounty-courses>





Download Roadmap  
[Click Here](#)







# Getting involved with infosec Community

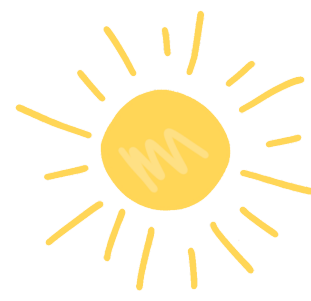
## Where to Find Good(Ethical) hackers ??

- Twitter - Most hackers/Researchers are on twitter.
- Youtube - They also helps Community to learn through Youtube
- Discord - They Have Discord Servers to talk/share stuffs with each other.
- Medium - They helps Community by writing there work/findings.
- Reddit - Infosec thread.
- Linkedin - They Have professional profiles too.
- Forums - You can Find Black Hat Hackers too.
- Github - They helps community by building tools and sharing there tools.
- Telegram - Some awesome Groups are there.

So What to do ?? Where to start from ??

Join Twitter Today, and Follow the Hackers mentioned in next slide.





# List of Hackers to Follow

## Twitter

<https://github.com/nahamsec/Resources-for-Beginner-Bug-Bounty-Hunters/blob/master/assets/media.md#twitter>

## Youtube

<https://github.com/nahamsec/Resources-for-Beginner-Bug-Bounty-Hunters/blob/master/assets/media.md#youtube-channels>

## Streamers

<https://github.com/nahamsec/Resources-for-Beginner-Bug-Bounty-Hunters/blob/master/assets/media.md#streamers>

## Discord Servers

<https://github.com/nahamsec/Resources-for-Beginner-Bug-Bounty-Hunters/blob/master/assets/media.md#discord-servers>





# Podcasts/Books for Cybersecurity

## Podcasts

<https://github.com/nahamsec/Resources-for-Beginner-Bug-Bounty-Hunters/blob/master/assets/media.md#podcasts>

## Books

<https://github.com/nahamsec/Resources-for-Beginner-Bug-Bounty-Hunters/blob/master/assets/media.md#books>





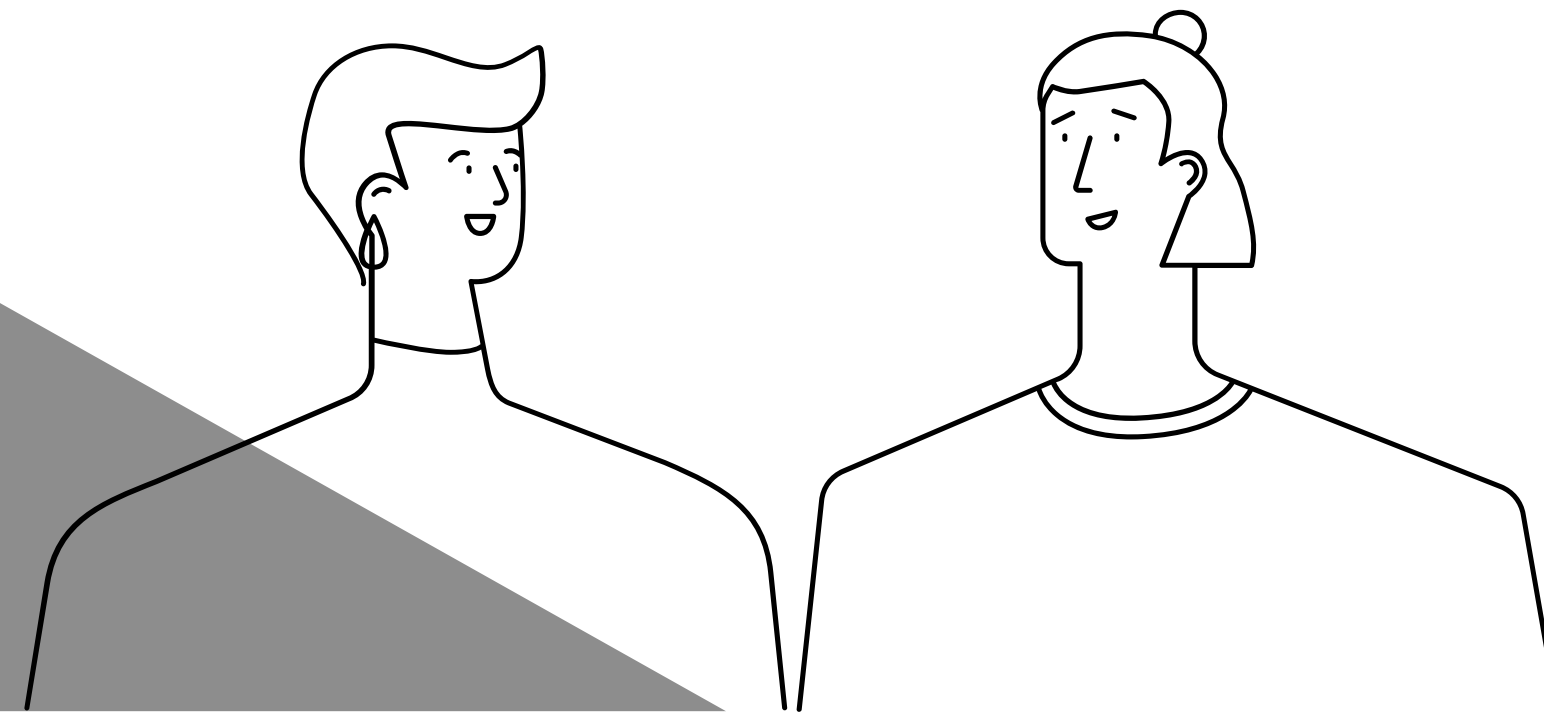
# News/Updates of Cybersecurity

## Telegram

<https://www.sentinelone.com/blog/top-10-telegram-cybersecurity-groups-you-should-join/>

## Websites

<https://www.usefulblogging.com/cybersecurity-websites-to-follow/>





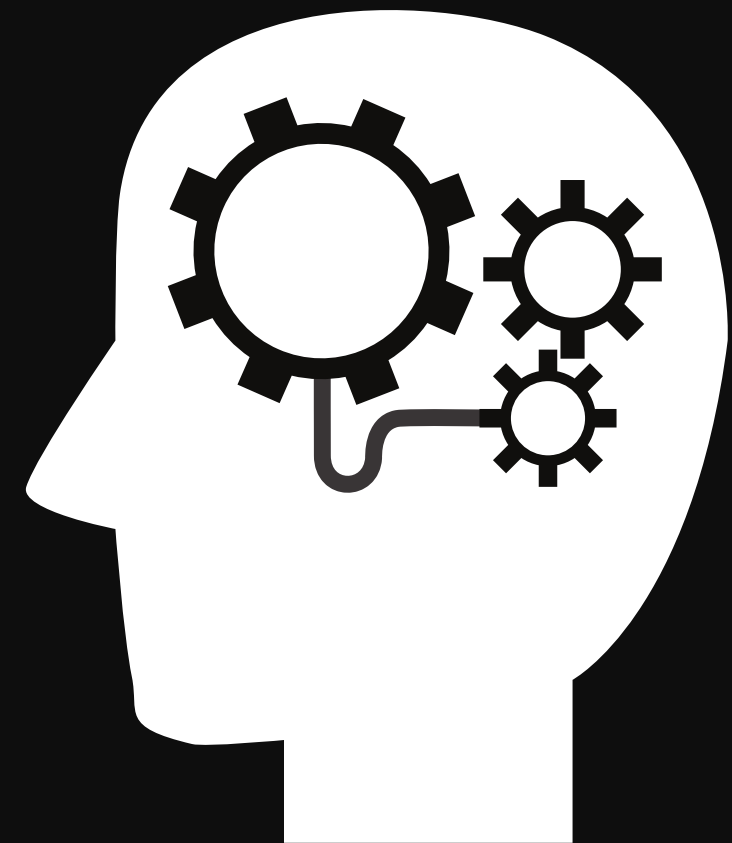


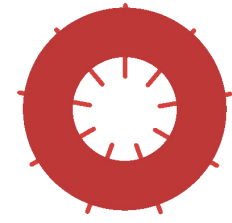
# Certifications



Few Certifications Recommended For Beginners

- eJPT
- CEH (Practical)
- PNPT
- eWPT (Get Portswigger Cert if Possible)
- eWPTX
- eCPPT
- eCPPTx
- OSCP
- OSWE
- CRTP/CRTE
- OSED





# Resume Building

Understand From Experts in Infosec

John Hammond

<https://youtu.be/ZAt8MM8WG0o>

Jhaddix/Nahamsec

[https://youtu.be/Zs28J\\_SDXYQ](https://youtu.be/Zs28J_SDXYQ)







# Making Money in Cybersec

## Bug Bounty Hunting

- Hackerone
- Bugcrowd
- Open Bug Bounty
- YesWeHack
- intigriti
- Synack Red Team (SRT)

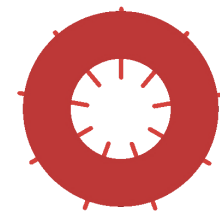
Reference :

<https://www.hackerone.com/ethical-hacker/how-become-successful-bug-bounty-hunter>

## Other Ways

- Penetration Testing (On demand)
- Security Consultancy to small orgs
- Cybersec Content Creation
- Courses Selling
- Creating and selling tools and methodologies





# My Goals



## Twitter thread

<https://twitter.com/anOnud4y/status/1457545560076873736>



**Udayveer Singh** @anOnud4y · Nov 9

Replying to @anOnud4y

Learning Resources I am following in order.

- 1) @TCMSecurity Courses
- 2) @OxTib3rius PrivEsc Courses
- 3) @WebSecAcademy Labs
- 4) @PentesterLab Badges
- 5) Bug Bounty Courses from @theXSSrat and @OffensiveHunter

1/3



**Udayveer Singh** @anOnud4y · Nov 9

Certifications To Get: eJPT, PNPT, eWPT, eCPPT, OSCP

Optional Certs : eWPTx, eCPPTx, Portswigger Cert, CRTP, CRTE.

Resources I will Use as Reference For Practice/Learning:

- 1) @hackthebox\_eu Machines
- 2) @hackthebox\_eu Academy Modules
- 2) @RealTryHackMe Labs + Modules

2/3



**Udayveer Singh** @anOnud4y · Nov 9

Along with Learning From Above Listed Resources, I will be Passively Preparing for OSCP, and will Follow these Resources -

- 1) THM Boxes List By @nagasainikhil to build Basics for OSCP. (Youtube)
- 2) HTB OSCP Like Machines by @TJ\_Null
- 3) Proving Ground By @offsectraining

3/3



**Udayveer Singh** @anOnud4y · Nov 9

I will also try to document everything i am learning on My github Repo (Will Update once a week) & Blogs on @Medium.

For Note Taking i am Using @obsdmd + Github For backup + Gitbook For Notes Hosting.

Updates of My #Learn365 Journey Can be Found in Below Comments.



A man with a beard and sunglasses, wearing a dark vest over a light-colored shirt, is holding a handgun with both hands. He has a serious expression. The background is blurred, showing what appears to be an indoor setting with red and blue elements.

**ANY  
QUESTIONS???**