

CYBER SECURITY ROADMAP

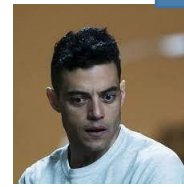
Z E R O T O H E R O

By Sagar

MY Learning Experience-(2.5 years)



sagar_v2_0



Scam Quit

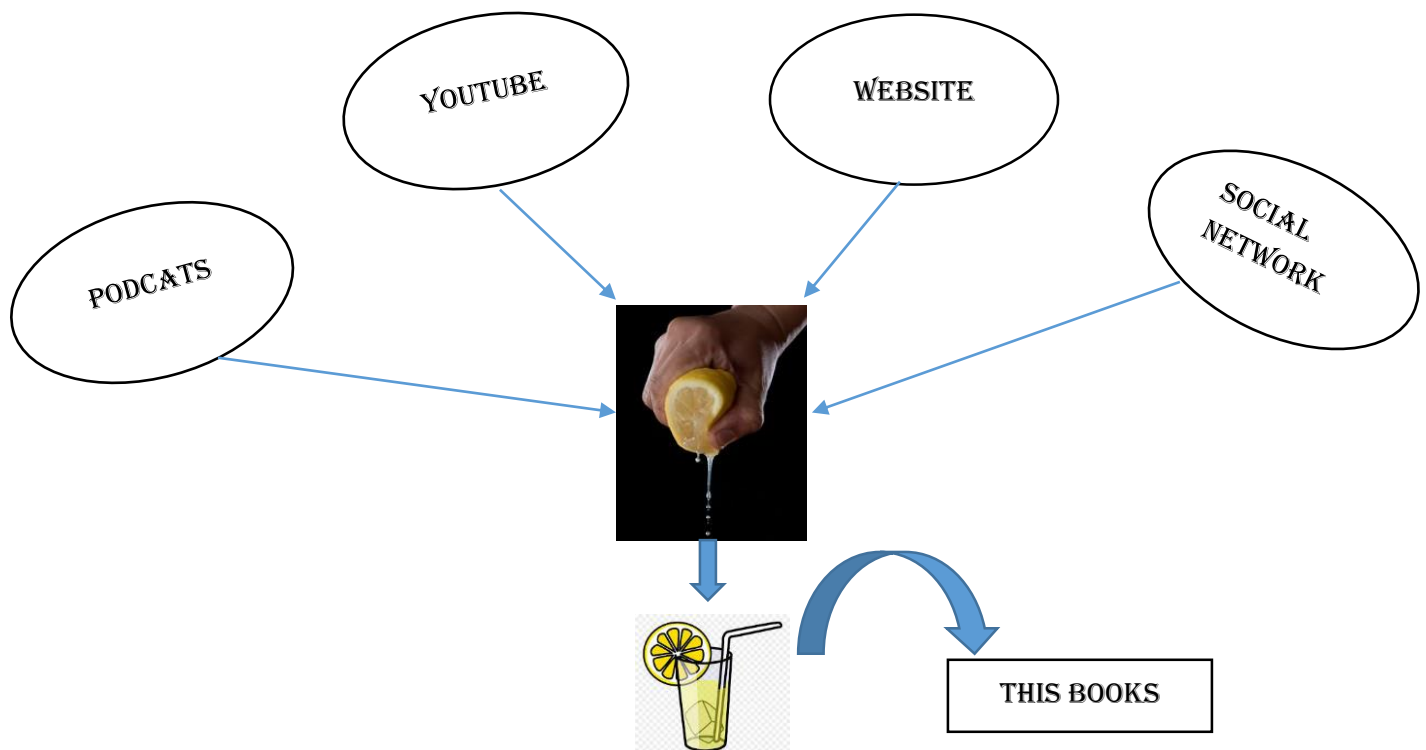


Zero to Hero

Cyber security full Roadmap-(Method)

It focus on Point to Points

- Skill + learning resources.
- Overview Cybersecurity starting level course + Books.
- All types Deep understanding of cyber security(समुद्र)-CEH v11.
- Cyber security Domains- (Expert your fields).



Skills + Learning Resources.

Sabka overview lena h.. //only procees not store // future mai practice ke sath sab yaad ho jayega..

1-Computer fundamental:-

Click



2-Computer Hardware:-

Click



Dekho basic imp h.

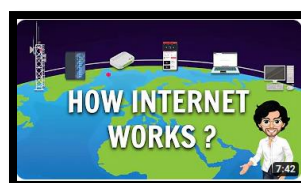
Ap bolo mai hacker field se hu or fir Apse koi normal Q kare or bta hi nahi pao.. fir kya mtlb??

Isliye strong foundation IMP or Ap bina basic se future grow nahi kar sakte ho.. abhi time h.

learn karna fir nahi milega moka..

3-Web and Internet:-

Click



Strong your basic knowledge..

Career ke liye jarure h. Direct hacking nahi sekh sakte ho.. script kiddes ho jaoge..

4-Networking:-

Click

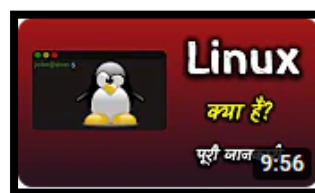


Iss networking playlist mai deep knowledge h.

Hame starting mai inta hi knowledge Kafi h.

Future mai work ke sath advance Aap khud learn kar skte ho..

5-Linux OS (kali Linux):-



Isme Ap linux ka undarsting ka lo pehle. Basic overview of linux . ____Tools ka knowledge apko course mai karna h.. fir to apko linux os ko deep karna hi sab work apko ispe hi karna h.. but apko course mai undarsting ho jayega.

Dekho dosto kali linux Apko hi learn karna h.. vo Ap pe depend karta Ap kitna good learn karte ho.. ese baat ka to hacking h yee.. koi limit nahi.

6-Programing language:-

“Programing mai apko deep knowledge not required h. Apko only structure, code kya function kar raha yee smj Ana chahiye bas.. Taki Aap target ka working method analysis ka sako”...

Starting mai coding ka apko need nahi h.. but software kaise create hote isliye basic overview lena jaruri h..Basic finish karne ke baad apko isko use karoge-(domain)

Like-

Pentesting , Bug hunting, Malware analysis, Own script, review software code, reverse engineering, development Tools etc..

General coding → C / java.

Script language → Python /ruby/GO.

Shell script -→ Bash.

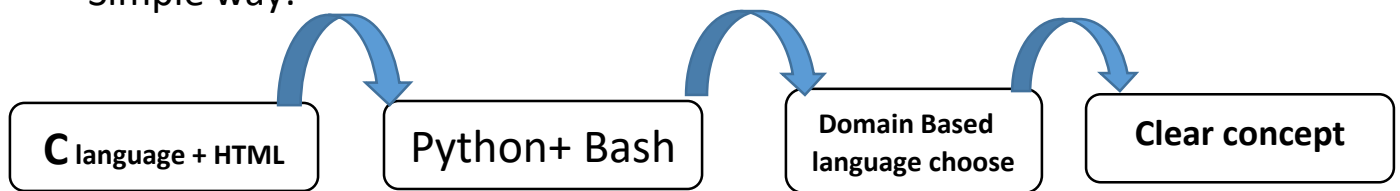
Depend on your domain.

- Apka jo domain mai interest h. us base par apko language choose(learn) karna h..

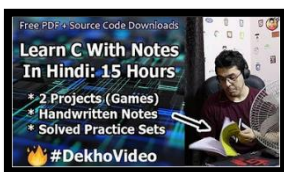
Like-Web App testing

- Frontend → HTML, JavaScript
- Backend → PHP, SQL.

Simple way:



Its process of Programing Language Leaning
in cyber security



Iske baad apko apne domain ke base par language ko choose karke learn karna h.. its very imp.

Like:-

✓ **Web security=Bug Hungting.**



Attention here..

Dosto esa nahi h. ki Apko programing mai sab Ana chahiye. Aap programing ka overview smj lo bas. Future mai practice ki sath complete ho jayega. //understand How it work // cyber security ke

sath-sath apko programing learn karna h.. As a secondy part esa mat karna full time only programing learn kar rahe ho.. tab Aap ek developer ache ban jauge Ethical Hacker nahi < because cyber security mai bahut large Area h. Us par focus karna h.

I REPEAT AGAIN:

Programing only for understand how it work & learn as a secondy part with cyber security.

Mid knowledge of these topic. (For starting time)

Cryptography:-



Databases:-



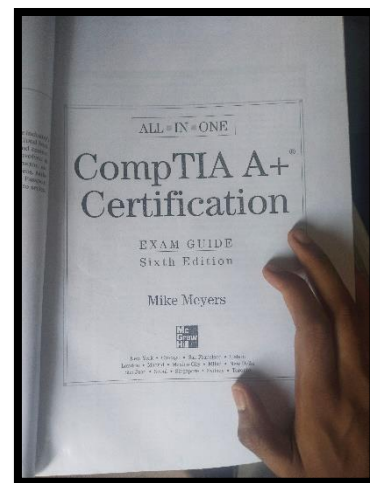
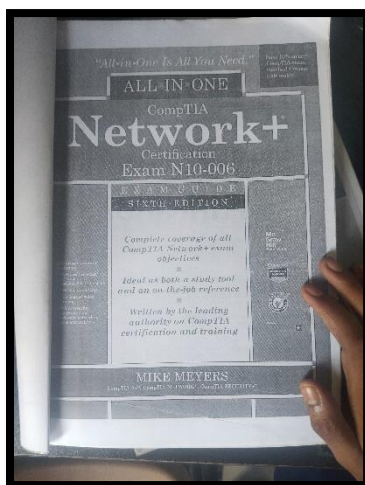
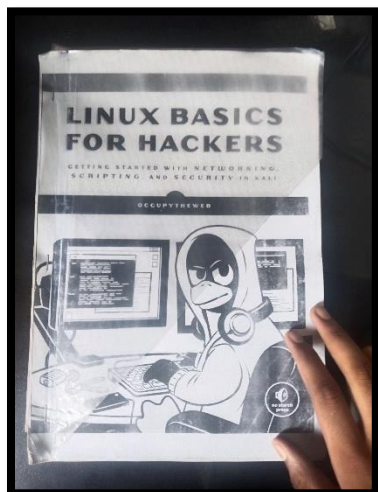
Dekho mai apko cyber security ka समुद्र bta rahu.. kitna kya learn karna h..
basic se adavance Ap khud kar skte ho..
mai apko learning metholgy bta rahu hu..

Dekho agr Aap ko yee process skill time consuming lag rahe .. to mai apko bta du.. 4 din mai real Ethical hacker koi nahi bnta h.. Agr ap step by step learn nahi karoge to Ap future mai problem ho sakti, with senior person ..

Or meine bhi to sab learn kiya h.. many video, website, blog, etc... but mujhe pehle full process pta nhi tha.. isliye time bahut waste kiya.. but ek self learning . bahut power full hoti.. h Apko better person bnati h.. real hacking ka yahi skill or process h.. Ap khud experience ki sath smj jouge..

Books+++

Abhi starting face mai basic understanding “kabhi” h, but ap future mai deep jane ke liye book ko try kar skte ho.



Maine jitna bhi content share kiya vo learn karne ka baad kiya past time mai.. esa nahi h_mai copy paste kiya hu. Mai Already learning experience kar chukka h content is liye suggest kiya..

Ap topic par dhyan dena.. topic kya bas content to internet bahut available h.. bas time nikalo Ap learn karne ke liye..

Many book free.

Books download from “pdfdrive.com”
Otherwise DM

Inta complete karne mai 3-4 months lag sakte ..

Fir vo apke learn par depend karta time.. kitna daily time dete ho..

“STAGE-1 DONE”

Dekho Ap jab skill ka overview kar loge.. Like:- network + kali linux.

Fir apko kills ko 'kese, kab, kha' use karna h vo smjana imp h.

How to use your skills

To hame skills ko implement karne ke liye basic of cyber security or ethical hacking ka course undarstading karna h..

Tab Apko good idea hota.. lets see now.

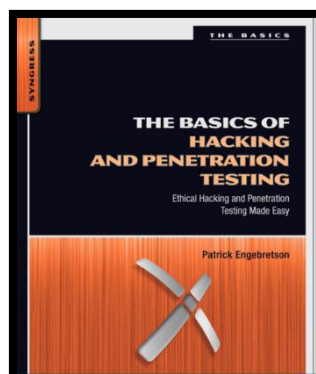
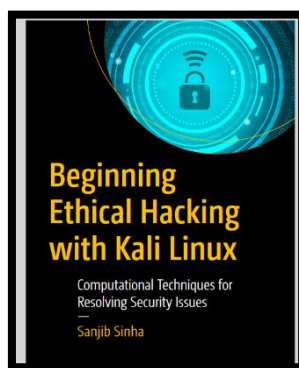
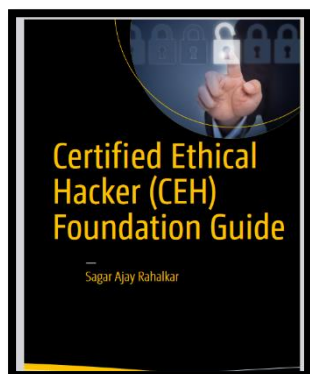
Abhi basic overview h.. cybersecurity ka.. how it work.. Only

From:- Course+++ & Book+++

First watch this→



All Basic overview of ethical hacking for starting time..



STAGE-2 DONE

BOOK Free available_not money waste .Nahi milta DM me..

Jab Aapko inta overview ho jayega tab Aapko complete & deep cyber security ko

understanding karna h. iss mai Apko hacking ke All Area & Type ka deep knowledge milega.

Way-1

Inta deep knowledge ki liye Apko CEH v11/12 ko karna h.. CEH v11/12 ko Aap official se bhi kar sakte ho.. but iska cost bahut jyda h.. by “ec-council” more learn search now..

Way-2

Or help of near institute or online but mai recommend karuga Apko valuable knowledge koi nahi de sakta..

“hacking no anyone teach its developed by self learning..” fact h.. only You..

Way-3 (my choice)

Aap CEH v11 ka full original version download kar lo.. internet se. v11 easy mil jayega free. But v12 abhi syad na mile..

Meine CEHv11 kiya h. ise way se..

EC-Council



Content in CEH v11. (20 module)

Page-Theory 3000+ Lab 2000+ total 5000++.

Module 01: Introduction to Ethical Hacking2 Hours

- Information Security Overview
- Information Security Threats and Attack Vectors
- Hacking Concepts
- Ethical Hacking Concepts
- Information Security Controls
- Penetration Testing Concepts
- Information Security Laws and Standards

Module 02: Footprinting and Reconnaissance2 Hours

- Footprinting Concepts
- Footprinting through Search Engines
- Footprinting through Web Services
- Footprinting through Social Networking Sites
- Website Footprinting
- Email Footprinting
- Competitive Intelligence
- Whois Footprinting
- DNS Footprinting
- Network Footprinting
- Footprinting Through Social Engineering
- Footprinting Tools
- Footprinting Countermeasures
- Footprinting Penetration Testing

Module 03: Scanning Networks2 Hours

- Network Scanning Concepts
- Scanning Tools
- Scanning Techniques
- Scanning Beyond IDS and Firewall
- Banner Grabbing
- Draw Network Diagrams
- Scanning Pen Testing

Module 04: Enumeration2 Hours

- Enumeration Concepts
- NetBIOS Enumeration
- SANP Enumeration
- LDP Enumeration
- SMTP and DNS Enumeration

- Other Enumeration Techniques
- Enumeration Countermeasures
- Enumeration Pen Testing

Module 05: Vulnerability Analysis 2 Hours –

- Vulnerability Assessment Concepts
- Vulnerability Assessment Solutions
- Vulnerability Scoring Systems
- Vulnerability Assessment Tools
- Vulnerability Assessment Reports

Module 06: System Hacking 2 Hours

- System Hacking Concepts
- Cracking Passwords
- Escalating Privileges
- Executing Applications
- Hiding Files
- Covering Tracks
- Penetration Testing

Module 07: Malware Threats 2 Hours - 7 Topics

- Malware Concepts
- Trojan Concepts
- Virus and Worm Concepts
- Malware Analysis
- Countermeasures
- Anti-Malware Software
- Malware Penetration testing

Module 08: Sniffing 2 Hours - 10 Topics

- Sniffing Concepts
- Sniffing Technique: MAC Attacks
- Sniffing Technique: DHCP Attacks
- Sniffing Technique: ARP Poisoning
- Sniffing Technique: Spoofing Attacks
- Sniffing Technique: DNS Poisoning
- Sniffing Tools
- Countermeasures
- Sniffing Detection Techniques
- Sniffing Pen Testing

Module 09: Social Engineering 2 Hours - 7 Topics

- Social Engineering Concepts
- Social Engineering Techniques
- Insider Threats
- Impersonation on Social Networking Sites
- Identity Theft

- Countermeasures
- Social Engineering Pen Testing

Module 10: Denial-of-Service2 Hours - 8 Topics

- DoS/DDos Concepts)
- DoS/DDos Attack Techniques
- Botnets
- DDoS Case Study
- DoS/DDos Attack Tools)
- Countermeasures
 - DoS/DDos Protection Tools
- DoS/DDos Penetration Testing

Module 11: Session Hijacking2 Hours - 6 Topics

- Session Hijacking Concepts
- Application Level Session Hijacking
- Network Level Session Hijacking
- Session Hijacking Tools
- Countermeasures
- Penetration Testing

Module 12: Evading IDS,Firewalls, and Honeypots2 Hours - 8 Topics

- IDS, Firewall and Honeypot Concepts
- IDS, Firewall and Honeypot Solutions
- Evading IDS
- Evading Firewalls
- IDS/Firewall Evading Tools
- Detecting Honeypots
- IDS/Firewall Evasion Countermeasures
- Penetration Testing

Module 13: Hacking Web Servers2 Hours - 8 Topics

- Web Server Concepts
- Web Server Attacks
- Web Server Attacks Methodology (Day 13)
- Web Server Attack Tools)
- Countermeasures
- Patch Management
- Web Server Security Tools
- Web Server Pen Testing

Module 14: Hacking Web Applications2 Hours - 7 Topics

- Web App Concepts
- Web App Threats
- Hacking Methodology
- Web App Hacking Tools
- Countermeasures

- Web App Security Testing Tools
- Web App Pen Testing

module 15: SQL Injection2 Hours - 6 Topics

- SQL Injection Concepts
- Types of SQL Injection
- SQL Injection Methodology
- SQL Injection Tools
- Evasion Techniques
- Countermeasures

Module 16: Hacking Wireless Networks2 Hours - 9 Topics

- Wireless Concepts
- Wireless Encryption
- Wireless Threats
- Wireless Hacking Methodology
- Wireless Hacking Tools
- Bluetooth Hacking
- Countermeasures
- Wireless Security Tools
- Wireless Pen Testing

Module 17: Hacking Mobile Platforms2 Hours - 7 Topics

- Mobile Platform Attack Vectors

- Hacking Android OS
- Hacking iOS • Mobile Spyware
- Mobile Device Management
- Mobile Security Guidelines and Tools
- Mobile Pen Testing

Module 18: IoT Hacking2 Hours - 6 Topics

- IoT Concepts
- IoT Attacks
- IoT Hacking Methodology • IoT Hacking Tools
- Countermeasures
- IoT Pen Testing

Module 19: Cloud Computing2 Hours - 6 Topics

- Cloud Computing Concepts
- Cloud Computing Threats
- Cloud Computing Attacks • Cloud Security
- Cloud Security Tools
- Cloud Penetration Testing

Module 20: Cryptography 2 Hours - 8 Topics

- Cryptography Concepts
- Encryption Algorithms
- Cryptography Tools
- Public Key Infrastructure (PKI) • Email Encryption)
- Disk Encryption • Cryptanalysis
- Countermeasures

Additoin learning & practice:-

OWASP top10

Learn bug bounty report.

Podcast of cyber security.

Social network > Twitter, reddit, medium etc.

Forums > defcon BlackHat etc.

Many more..

Practice skills

Metasploit setup

DVWA

PortSwigger academy.

Tryhackme, HackTheBox, PentestrLab, Vulnhub etc..

Many more..

STAGE-3 DONE

TALK ABOUT DOMAIN

Market mai ro bhi certification h. but sabse best yahi h for starting cyber security carrier... vo hard bhi like OSCP, eJpt etc..
okayyyy.

Jab Aap inta long journey complete kar loge tab Aap ek bahut advance ho jaoge . vo Aap learning procees dekh kar smj rahe hoge..

yahi real procees cyber security ka inta long but hame koi nahi btata h.. ki learning karna kese h.. how do it..

next move:-

Ab Aap koi bhi course karo sabme lagbhag same knowledge hoga..

Ceh v11 after

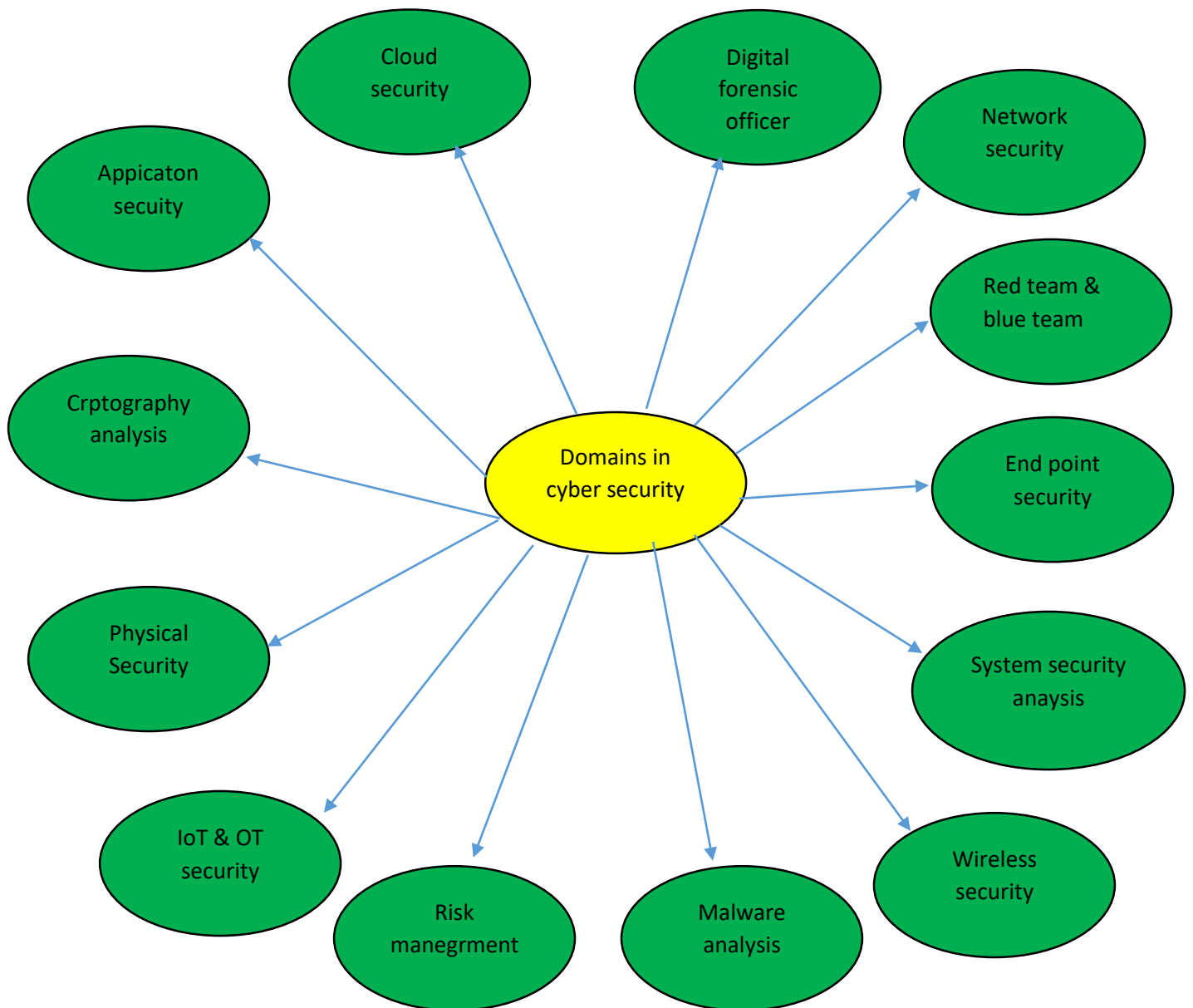
Iske baad cyber security ek समुद्र h jisme bahut different type ki fish h.. callled "Domains "

Ab apko apne interset ki hisab se Apna domain choose karna h..or us domain ka Apko khiladi bnna h..

Sab ek sath ap nahi kar sakte h. 24 hours kaam pd jayege.
dosto..

Aap pehle ek domain mai better ho jate h. fir ap other domians mai entry le sakte h.. but Apko all domain ka basis overview mil hi jayega. Jab Aap inta cover kar loge.. more search now..
about this topic.

Cyber security domains:-



Appicaton security = App & web security / web security = bug hunting
Yee famous h. isliye bta diya h. bug hunting kiska part..

Dekho ab apko pta chal gya hoga ki **cyber security kitna large** h.. too jab Ap base ready kar rahe hoge tab apko or better clear ho jyega..

Iske baad Ap apna domain choose kare or fir deep learning kare..

Actucally mai web security ko choose kiya hu.. learning countinue h.. mera recently..mujhe is ka king banna h.

Fir smne koi bhi website ho mujhe usme bug nikala hi h..

Jab Aap ka base strong ho jayega tab Aap domain ko deep learning karna

Bahut deep learning.. domain mai kya karna h. vo tum yaha ate ate khud smj jaoge.. self leaning make perfect..

“Kahte h. Apne field ke pakke khiladi bano. Fir sab milega life mai .. sharp our telent.. by sandip sir.”

Dekho IT Lover's domains ka learnig **path life time** countunue rahega..

Aap learn karo, Earn karo, fun karo

acutually h.. bhai real learning yahi h.. so enjoy your this

Recommend karuga first (advice)

Ap web security learn karo easy hota..

or school, collage time par koi problem nahi hoga.

Job ki liye **company par depend** nahi hona pdega.

Bug hunting kar skte ho.. Study ke sath sath earning bhi hoti rahege..

Or study complete ho jaye to fir **professional web pentester** job kar skte ho.. acha h ye field.

Fir apne experience se or domain mai bhi entry kar skte ho..

Ap better ki liye ye two video dekh sakte ho..

Please video full dekhna carrier is IMP..



Asha karta hu.. roadmap ka topic tha. To kuch overview mila hoga.. how to learn cyber security.

Ya bahut long process lga hoga but reality yahi h..

Koi problem aa rahi to mujhe contact kar skte ho..



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number – Dm mai provide kar duga..