

# ROADMAP TO INFORMATION SECURITY

C Y B E R   S E C U R I T Y   &   M A S T E R S

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# WHOAMI



Adithyan Arun Kumar

- Offensive Security Certified Professional (OSCP)
- Admitted into #1 University in US for MS Information Security
- Certified Ethical Hacker (Master)
- Head of OWASP Coimbatore
- 7+ Years in Information Security
- Expertise in Application Security (Web and Network) and Open Source Intelligence
- Speaker at various conferences and educational institutions (IITM Research Park, NIT, Defcon, OWASP meetup)
- Acknowledged by Microsoft, Apple, Intel, Avira, Oppo, etc

3.5 MILLION UNFILLED GLOBALLY

1M PROFESSIONALS IN NEED

# WHY INFOSEC

SALARY STARTS FROM **M 75K\$ - 130K\$**

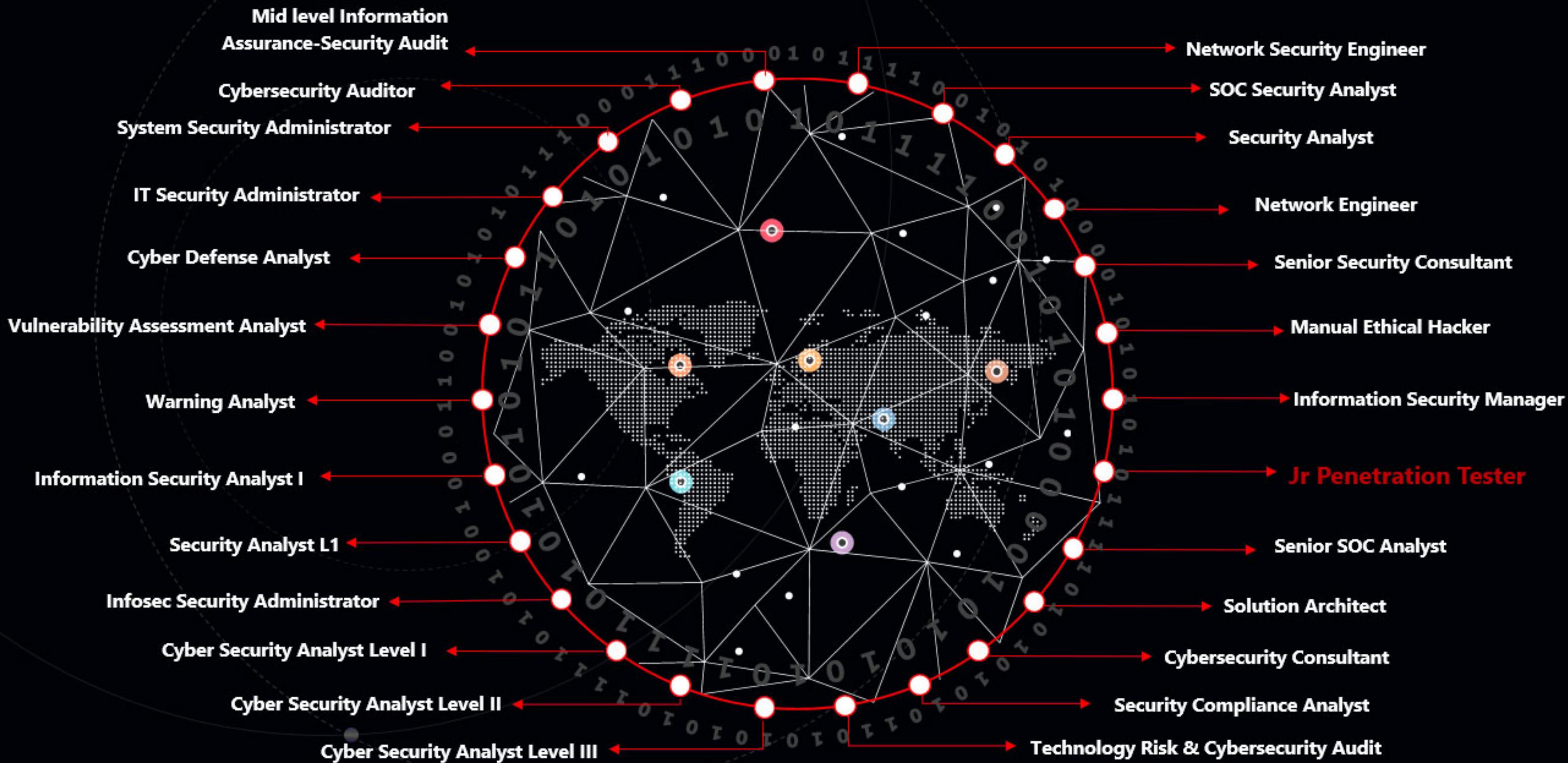
90% INCREASE IN ATTACKS

# Why InfoSec?

- Everyone can code
- High demand ~ Less supply
- Security can be integrated with anything
- 1000 Developers ~ 1 Security expert
- Research intensive
- will exist as long as computer exists
- Secure coding will become a standard
- stand out



# Common Job Roles For Certified Ethical Hacker



# SUB-DOMAINS

NETWORK SECURITY

APPLICATION SECURITY

IOT SECURITY

TELECOM SECURITY

# Types of Penetration testing



## White Box

Informations provided, Security infra / Announced/ unannounced



## Black Box

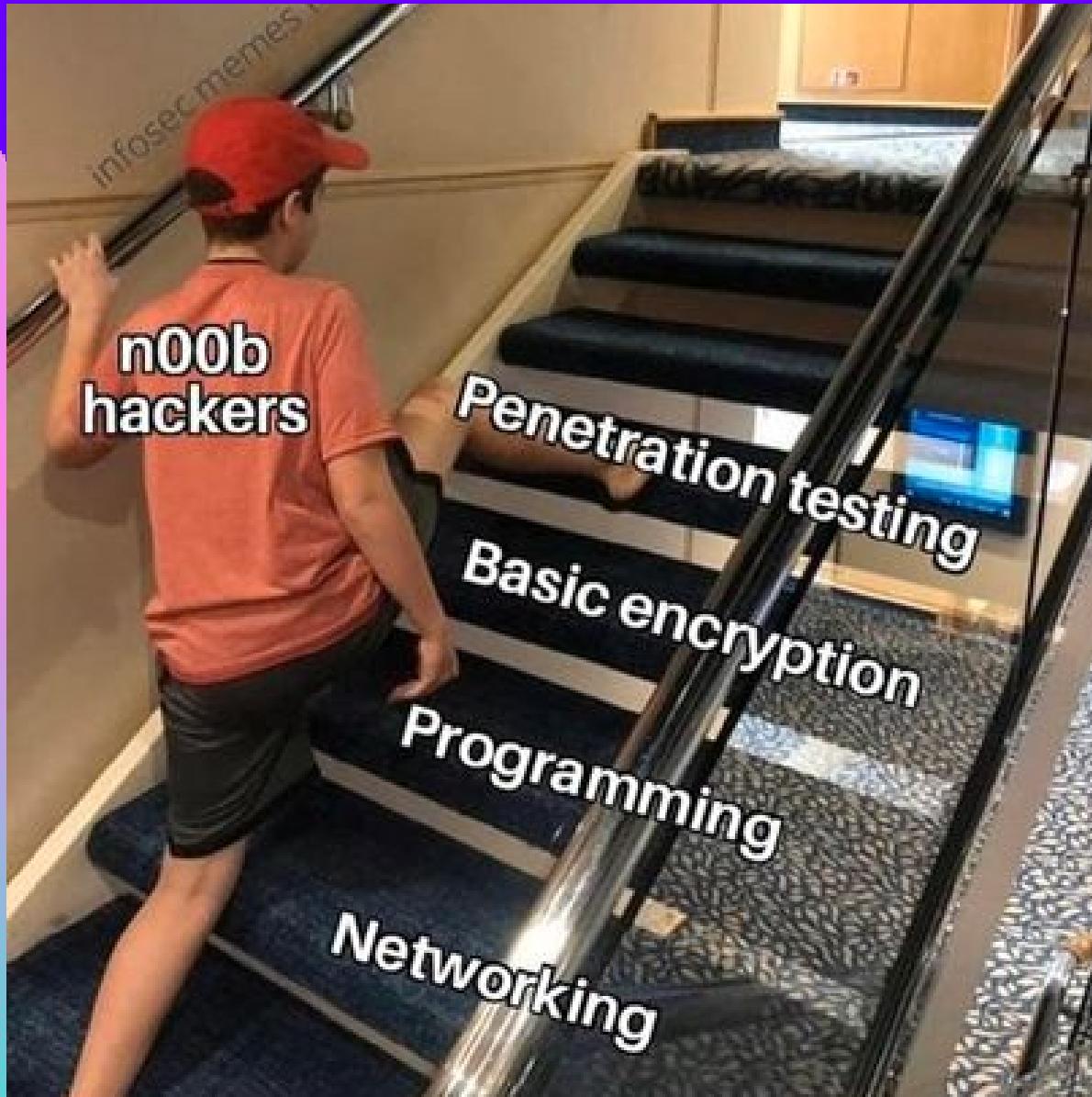
No information provided, Tooks time, Real Time hacking



## Grey Box

Informations provided, Announced/ unannounced

# Fundamentals



- Networking
  - TCP/IP
  - Ports & Protocols
- Web Fundamentals
  - HTTP Requests / Response
- Socket programming
- Expertise in Linux | Windows



# TRY BUILDING BEFORE YOU BREAK

Not mandatory  
but could help  
you a lot in  
understanding

# KEY TO SUCCESS

01

PERSISTENCE  
Keep researching  
with adequate  
breaks



Never-ending  
interest in  
Information Security  
**PASSION**

02

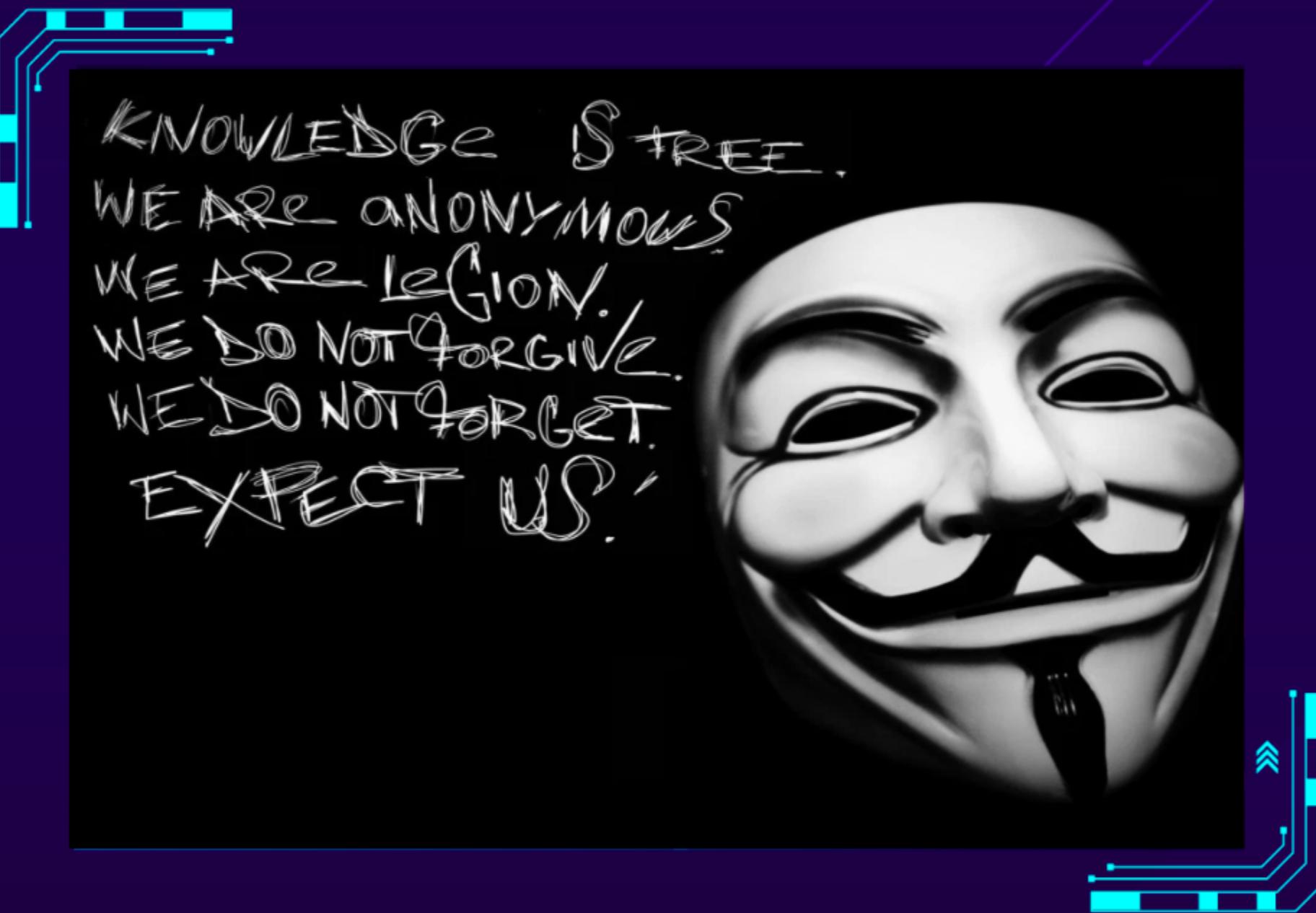
6 Months of hard  
work can put you 5  
years ahead  
**DEDICATION**

04

RESEARCH  
Writeups,  
Communities,  
Twitter, Youtube

Internet is full of  
resources

## KNOWLEDGE IS FREE



# LEARNING PATH FOR APPSEC

## Fundamentals

Learn networking and web fundamentals.

## Research

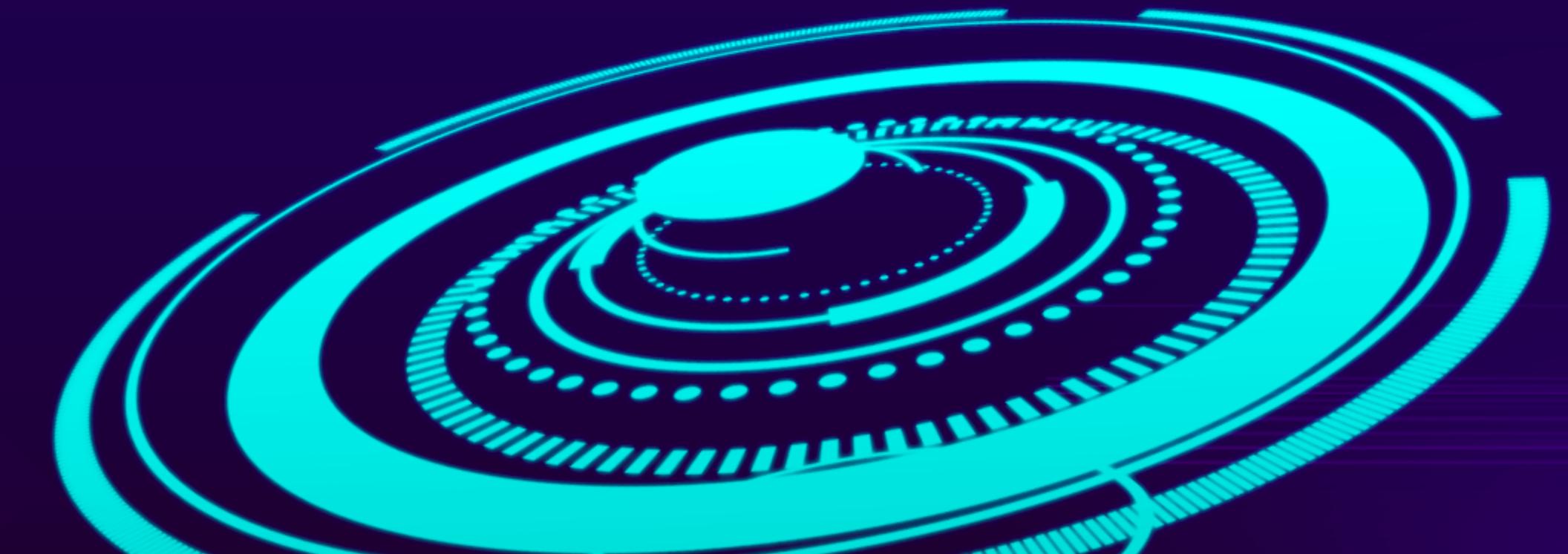
Testing methodologies, attack POCs, Writeups

## Practice

HackTheBox, TryHackMe, VulnHub

## Test

CEH Practicals, OSCP



# Selection Criteria for Abroad

**RESEARCH**

Top Priority

**INTERNSHIPS**

Medium Priority

**EXPERTISE IN FIELD**

Top Priority

# Shoot your Queries

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