

BERKARIR DI CYBER SECURITY

Satria Ady Pradana

WHO?

Satria Ady Pradana

- **Cyber Security Consultant** at Mitra Integrasi Informatika
- **Co-Founder** of Archonlabs SSD
- Penetration Tester, Red Team
- Community Leader of Reversing.ID



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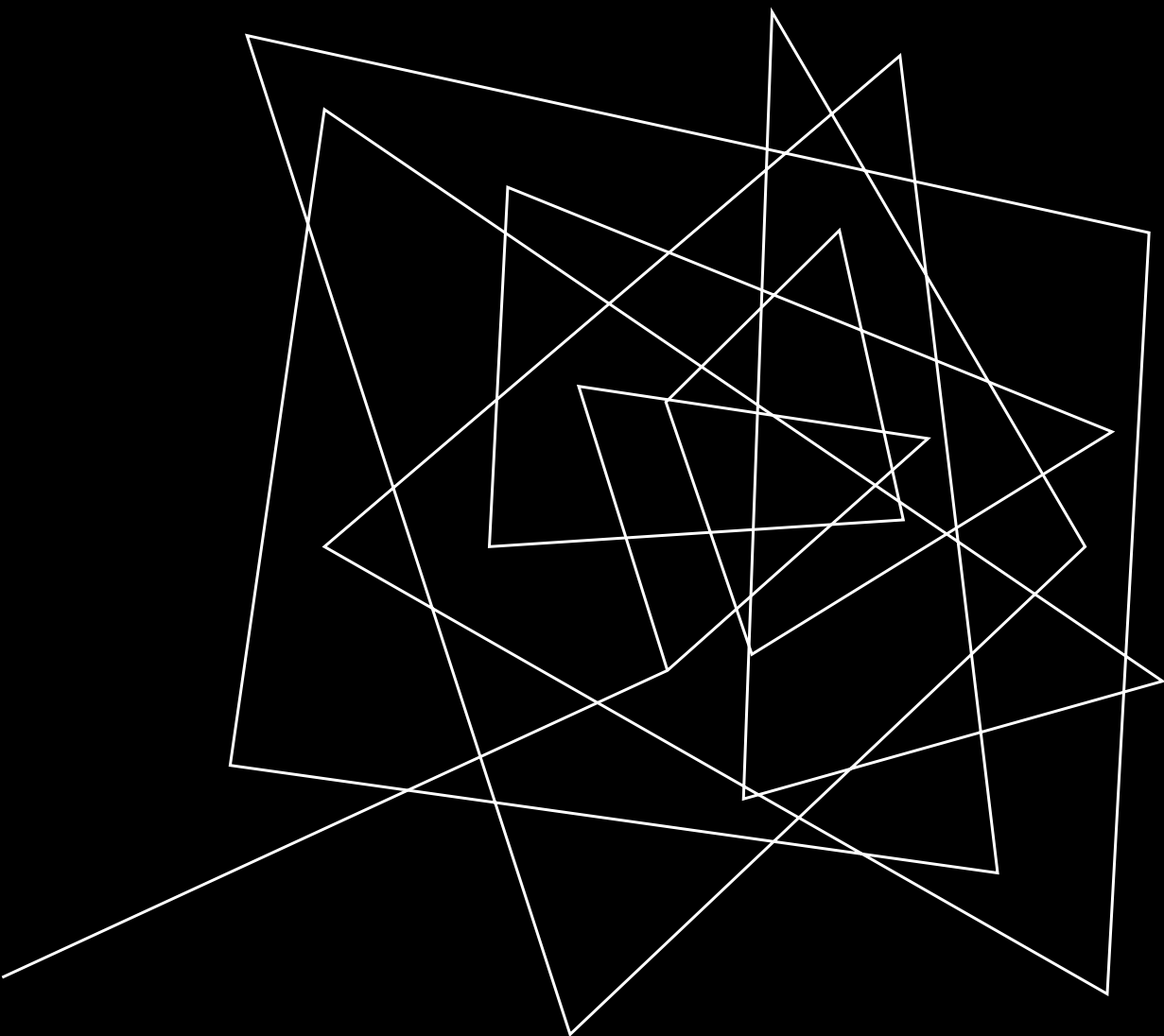


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BECOME
PROFESSIONAL

Red Team

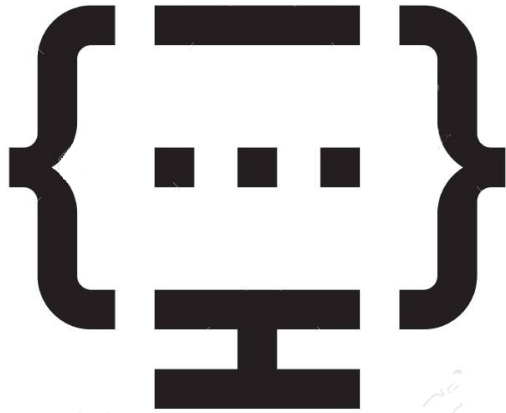
(CYBER) SECURITY PROFESSIONAL

- (n) **Professional** who is hired to keep online information of all sorts **protected** from cyber attacks and other malevolent threats.
- **Security** is hot field in Indonesia.
 - Rapidly growing in demand for qualified people.

AS RED TEAM

- Red Team: Offensive, Attack, Pillage
- Ensuring the security by attacking assessing it.
 - Proving the system is secure/insecure
- In general, they do:
 - Discover vulnerabilities of the system.
 - Planning and executing attack.
 - Create proof of concept.
 - Create mitigation/fixing recommendation.

CONCERN OF SECURITY



Code / Program



Infrastructure

Designing

Testing

Monitoring

EXPLORING THE JOBS

Penetration Testing

Exploit Research

Vulnerability Assessment

Adversary Simulation/Emulation



No DoS or DDoS!



CHALLENGES

- Must follow security trends, discoveries, and techniques.
 - CVEs
 - Security bulletins
 - Security incidents
- Specialization
- Simplify the problem so even non-technical people understand.

SPECIALIZATION (TOPICS)

Application

Web

Service

Android

Mobile

iOS

Active Directory

Infrastructure

Container

Network

IoT

AWS

GCP

Cloud

Azure

Smart Contract



GETTING STARTED AS RED TEAM

- Preparation?
- Lab & Exercise?
- Community?
- Certification?



SKILL SET

- Computing

- Operating system
- Virtual Machine
- Containers

- Networking

- Client-Server Model
- TCP/IP
- Network Segment
- Firewall
- VPN

- Web Technology

- Request & Response

- Programming

- Algorithm
- Problem Solving
- Storage & Database

LAB & EXERCISE

Pentest Lab

- Vulnhub (<https://www.vulnhub.com>)
- Vulhub (<https://github.com/vulhub/vulhub>)
- <https://medium.com/mii-cybersec/improving-pentesting-skill-with-intentionally-vulnerable-apps-ece1cdf3dc63>
- <https://www.amanhardikar.com/mindmaps/Practice.html>

Challenges & CTF Lab

- HackTheBox (<https://hackthebox.eu>)
- TryHackMe (<https://tryhackme.com>)
- Pentestit.ru (<https://lab.pentestit.ru>)
- AttackDefense (<https://attackdefense.pentesteracademy.com>)

ASSOCIATE

- Join community (telegram / whatsapp / slack)
 - Pentester ID (telegram)
 - ECHO (telegram)
 - Jasakom Perjuangan (telegram)
 - Cyber Army (telegram)
- Join Bug Hunting Platform: Cyber Army, Red Storm, HackerOne, BugCrowd, Synack,
- Write and publish research as blog post, paper, article, etc.
- Attending conference, seminar, workshop, training in cyber security.

SHOULD I CERTIFIED?

- **Benefit**
 - Help employers evaluate potential new hires.
 - Recognition of competency.
- **Recommendation:**
 - OSCP (Offensive Security Certified Professional)
 - eJPT (eLearnSecurity Junior Penetration Tester)
 - CEH (Certified Ethical Hacker)
 - PNPT (Practical Network Penetration Tester)



THANK YOU

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