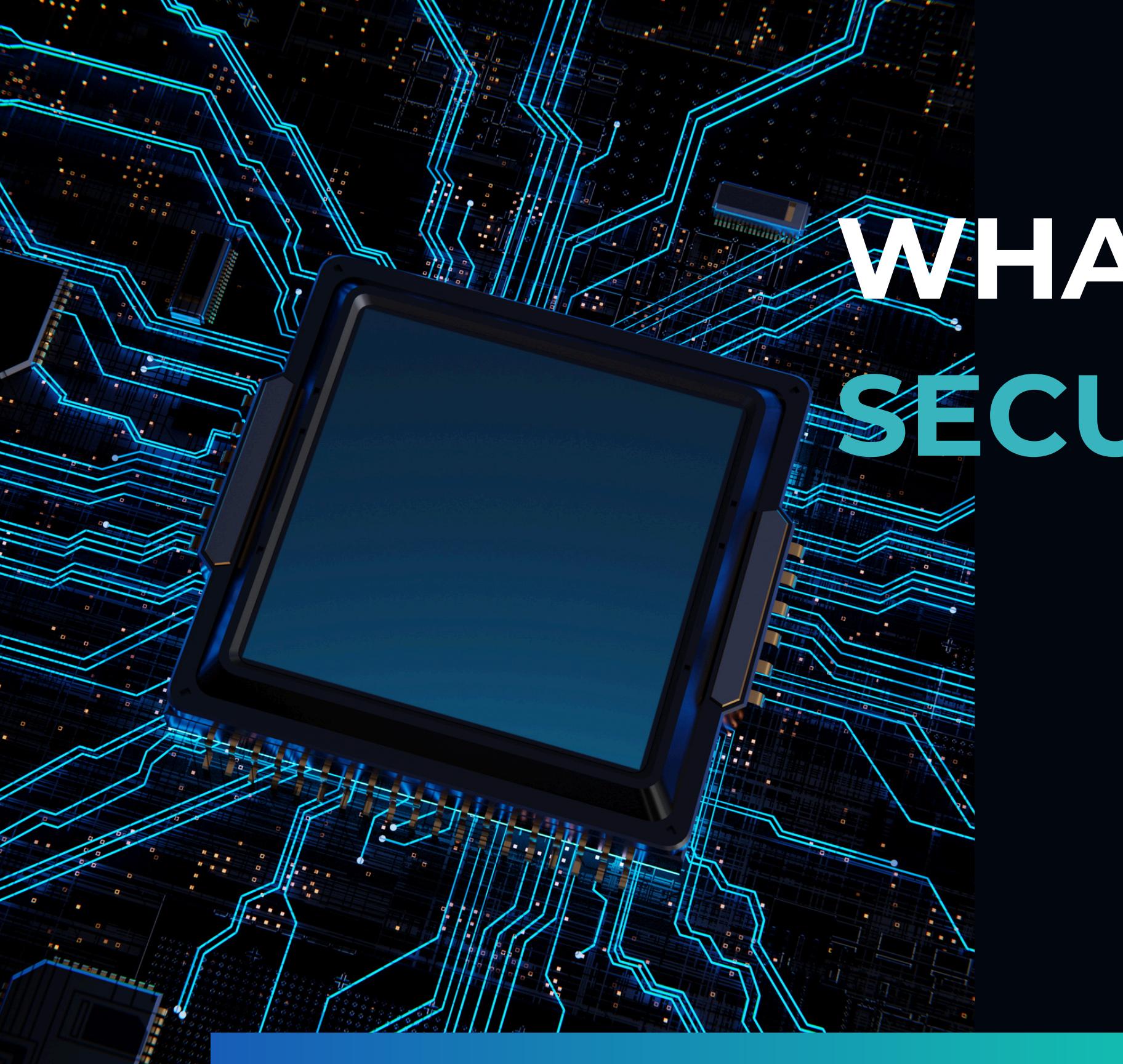


# CYBER SECURITY

Cybersecurity Fundamentals



# WHAT IS SECURITY ?

Cybersecurity is the practice of protecting systems, networks, and data from digital attacks.

Every 39 seconds a cyberattack happens globally.

Example: Locking your home door vs. using strong passwords.

## Why should learn cyber security

“Cybersecurity is not just for techies — it’s for everyone!”

Protect yourself and your organization from digital threats.

Evolution of Attack

90%

# REAL-WORLD CYBER THREATS



## Phishing

Fake emails to steal your info



## Malware

Malicious software



## Ransomware

Locking data for ransom

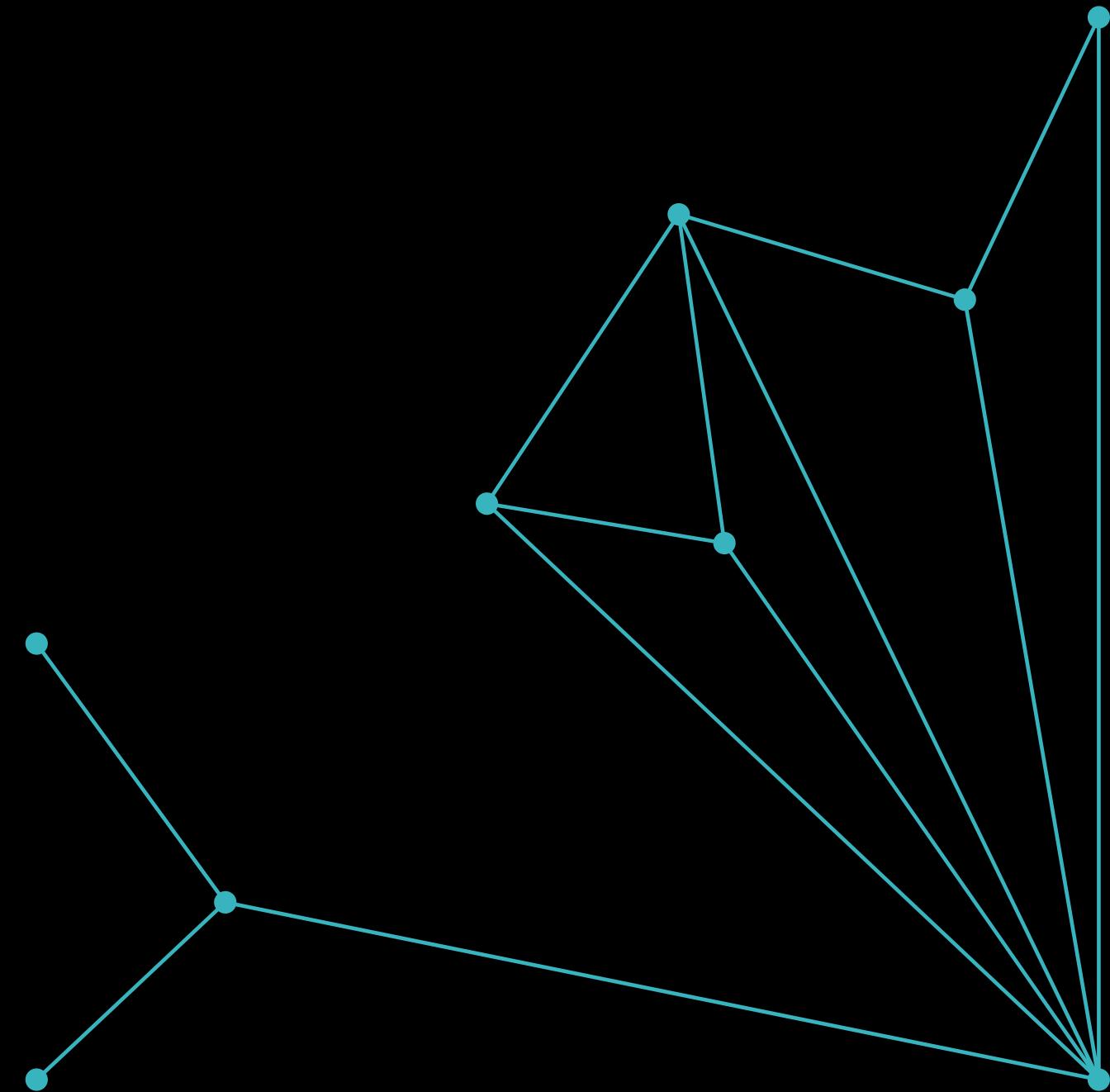


## Social Engineering

Tricking people, not system

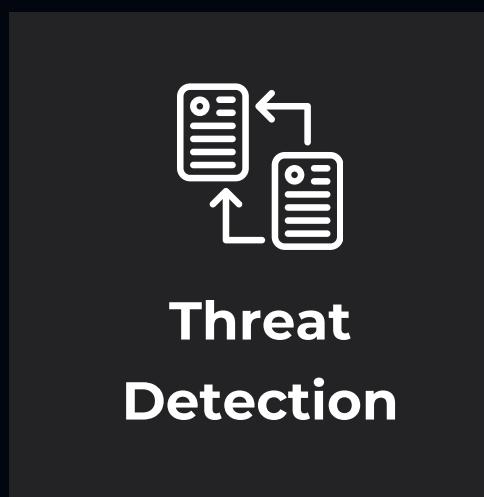
# 5 Fundamental Pillars of Cybersecurity

1. Confidentiality — Protecting information
2. Integrity — Keeping info accurate
3. Availability — Systems work when needed
4. Authentication — Verifying identities
5. Non-repudiation — Ensuring accountability



# WHO ARE THE HACKERS?

- ♥ **WHITE HAT: ETHICAL HACKERS (PROTECT SYSTEMS)**
- ♥ **BLACK HAT: CRIMINAL HACKERS (EXPLOIT SYSTEMS)**
- **GRAY HAT: IN BETWEEN**

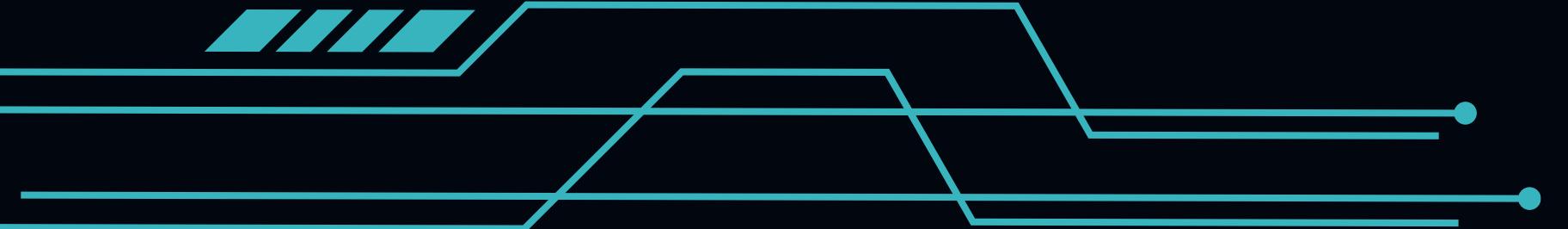


# How Cyber Attacks Happen

1. Target identified 
2. Information gathered 
3. Exploit the weak point 
4. Gain access 
5. Execute the attack 
6. Hide traces 

# How to Protect Yourself

-  Use strong & unique passwords
-  Enable Two-Factor Authentication (2FA)
-  Keep software up to date
-  Think before you click links
-  Backup your data regularly

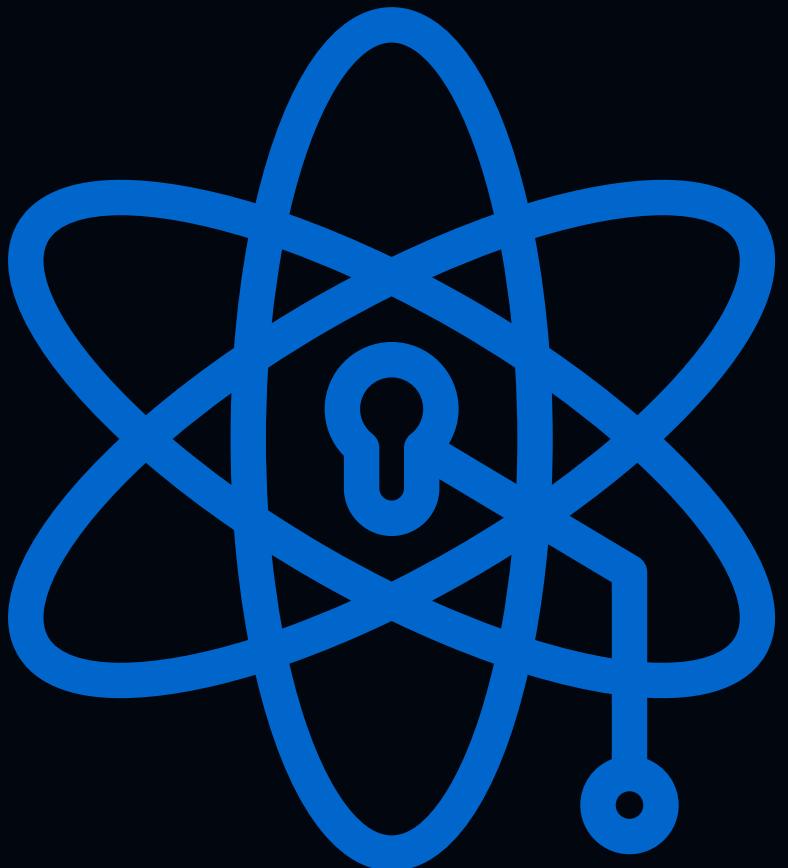


# Career Opportunities in Cybersecurity

Security Analyst | Penetration Tester | SOC Specialist  
Cybersecurity Consultant | Incident Responder  
Forensic Investigator  
 Global shortage = high demand + good salary.

# What You'll Learn in This Course

-  Fundamentals & Core Concepts
-  Network & System Security
-  Tools & Practical Labs
-  Threat Analysis & Response
-  Attacks & Defenses
-  Real-world case studies



# Let's Get Started!

- 🎯 Interactive Activity: Spot the Phish
- ❓ Quick Q&A

“Cybersecurity is not a product, but a process.” — Bruce Schneier

