

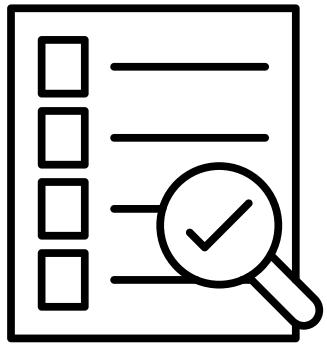
```
> whoami
```



How to start in the field of cybersecurity

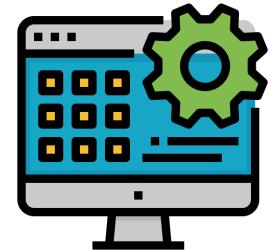
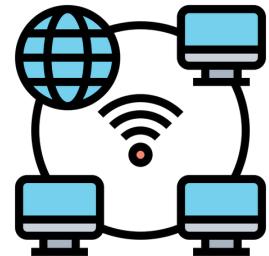
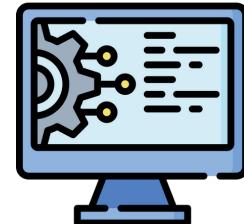
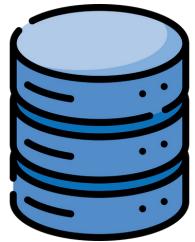
Topics

- 1.1-Concept of Cybersecurity
- 1.2-Concept of CIA and Its Relation to Cybersecurity
- 1.3-Cyber threats
- 1.4-Cyber Defense Techniques
- 1.5-Concept of Governance, Risk, and Compliance
- 1.6-Key Terms in Cybersecurity to Know
- 1.7-Getting Started in Cybersecurity



Cybersecurity

- **Cybersecurity** is a set of measures and technologies used to protect systems and electronic data from any threats or attacks that may harm them. The primary goal is to ensure the safety and security of information and digital infrastructure.



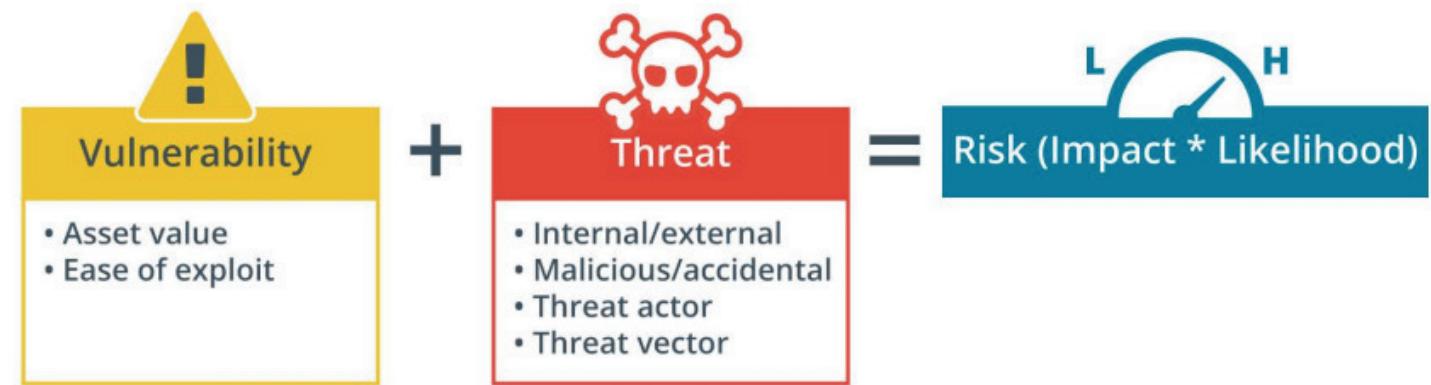
CIA and Its Relation to Cybersecurity

- **Confidentiality:** means that certain information should only be known to certain people.
- **Integrity:** means that the data is stored and transferred as intended and that any modification is authorized.
- **Availability:** means that information is accessible to those authorized to view or modify it.



VULNERABILITY, THREAT, AND RISK

- **Vulnerability** is a weakness that could be triggered accidentally or exploited intentionally to cause a security breach.
- **Threat** is the potential for someone or something to exploit a vulnerability and breach security.
- **Risk** is the likelihood and impact (or consequence) of a threat actor exploiting a vulnerability.



Cyber threats

- SQL Injection
- Malware :
 - 1.Trojan Horses
 - 2.Worms
 - 3.Spyware
 - 4.Ransomware

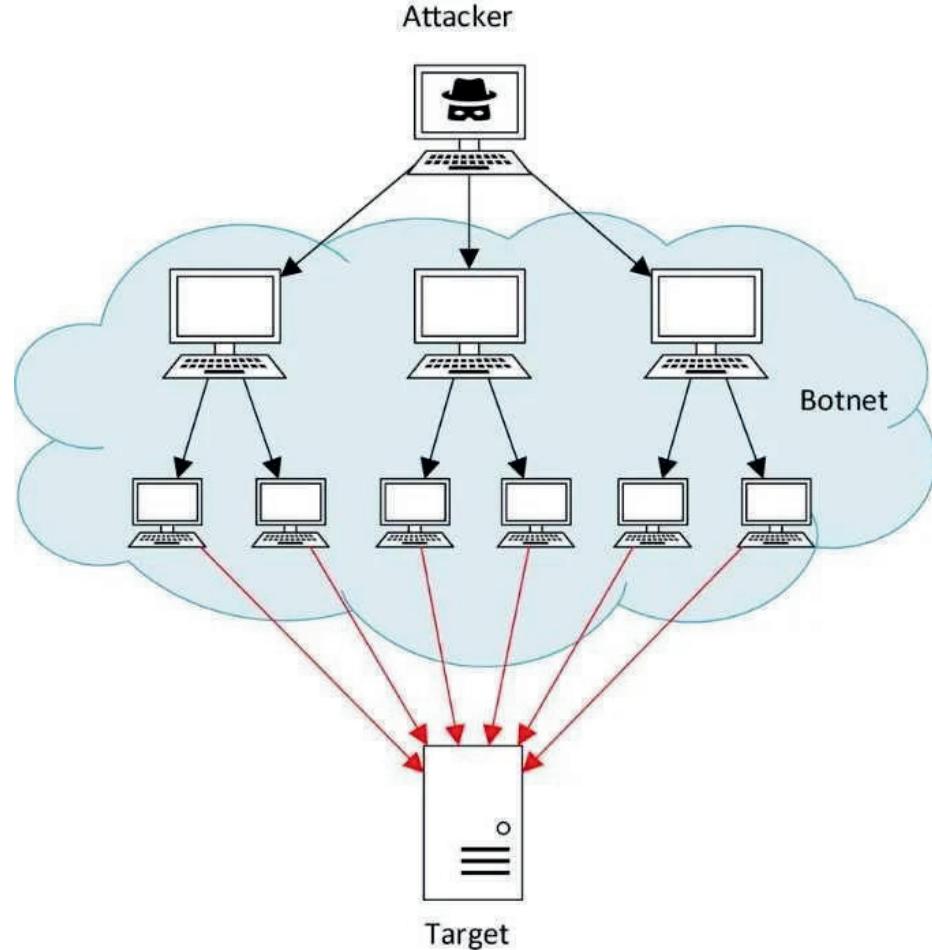


CLICK HERE 

- Social Engineering
- Man-in-the-Middle (MitM) Attacks
- Botnets
- Email Spoofing
- Zero-Day Exploits
- Credential Stuffing

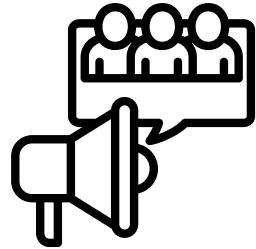
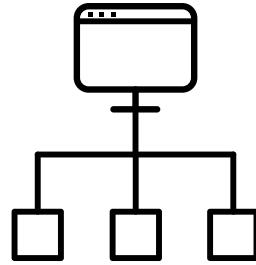
Cyber threats

- Task 1

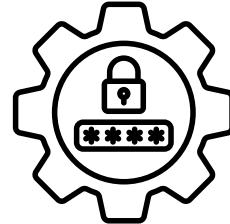
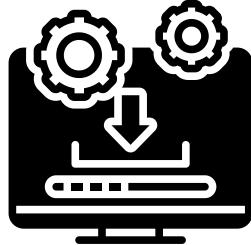


Cyber Defense Techniques

- Firewalls Encryption Network Segmentation Awareness Programs



- Updated antivirus software password managers backup solutions



Governance, Risk, and Compliance

- **Governance** : Involves issuing laws, regulations, and procedures to manage the relationship between stakeholders, operational processes, and the technologies used
- **Risk** : Focuses on identifying, analyzing, categorizing, and developing plans to address risks and threats surrounding the organization.
- **Compliance**: Aims to ensure that practices within the organization align with both internal policies and external regulations established by relevant authorities



الهيئة الوطنية للأمن السيبراني
National Cybersecurity Authority

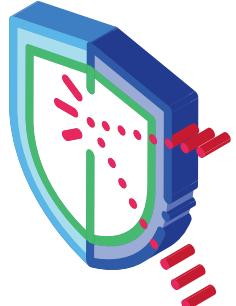
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Key Terms in Cybersecurity to Know



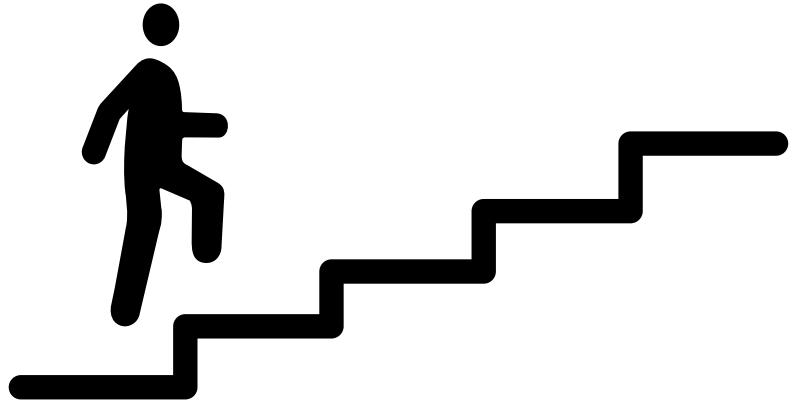
Getting Started in Cybersecurity

- **branches of cybersecurity**
 1. Defensive Cybersecurity
 2. Offensive Cybersecurity
 3. Governance, Risk, and Compliance (GRC)



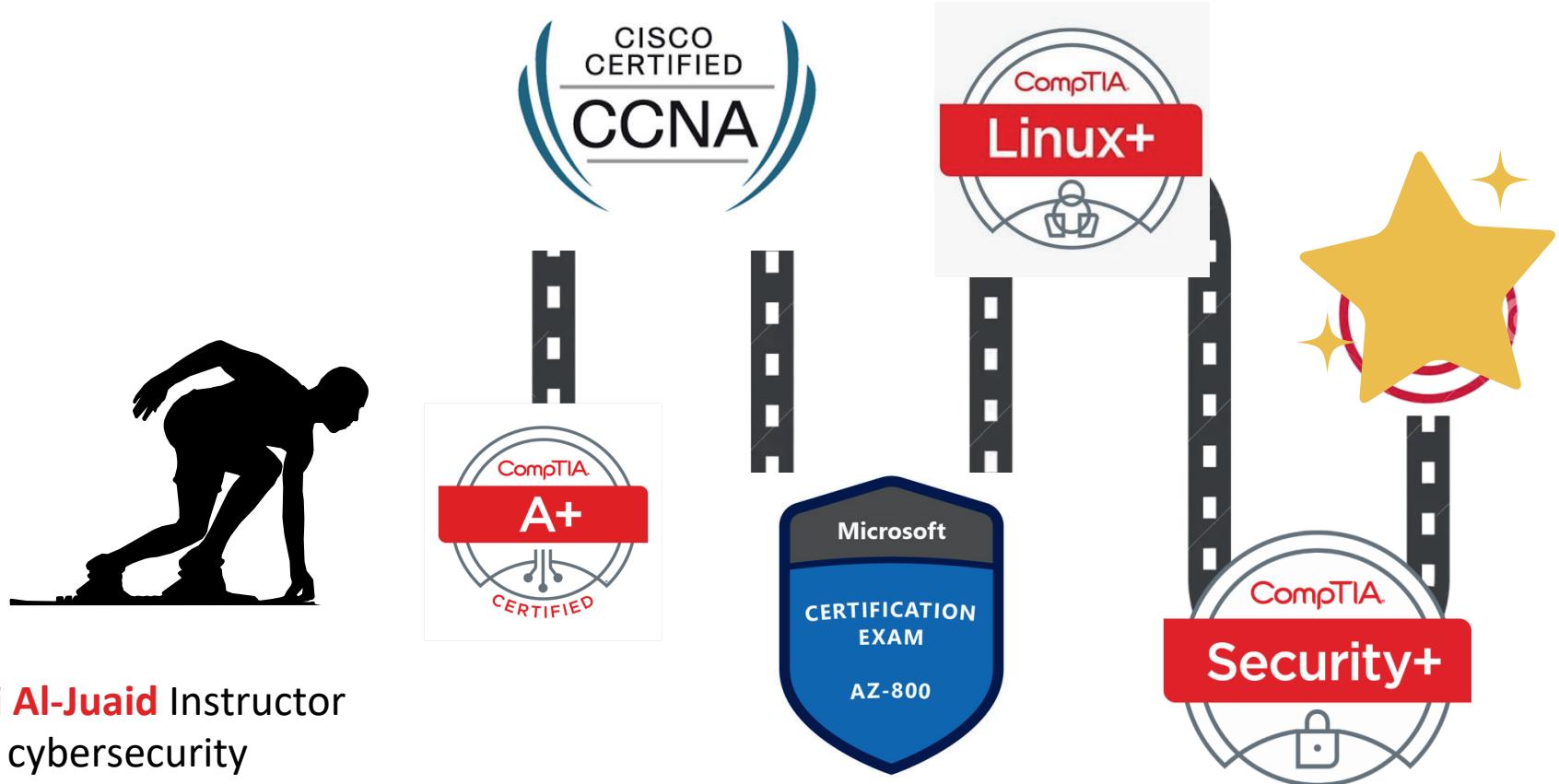
Getting Started in Cybersecurity

- It is necessary to learn the basics before entering the branches of cybersecurity



Getting Started in Cybersecurity

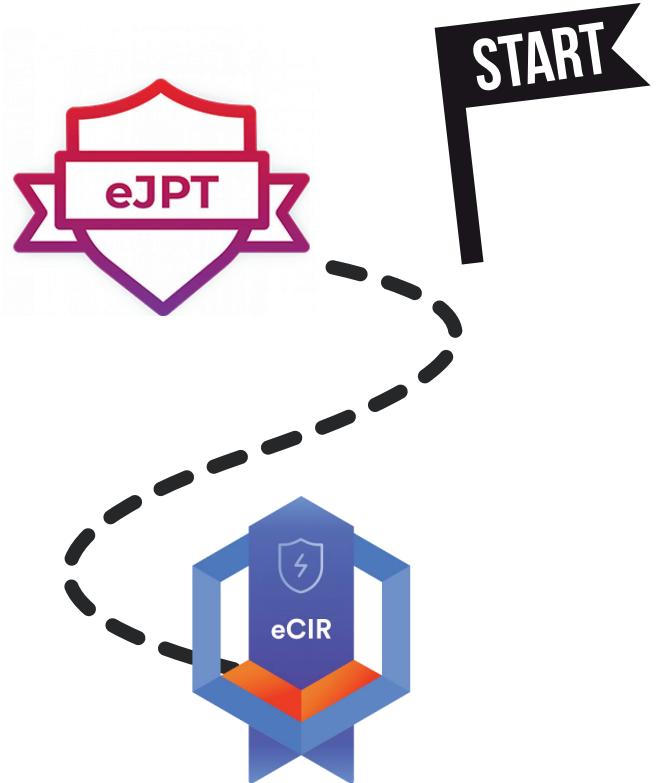
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Getting Started in Cybersecurity

- **Defensive Cybersecurity**

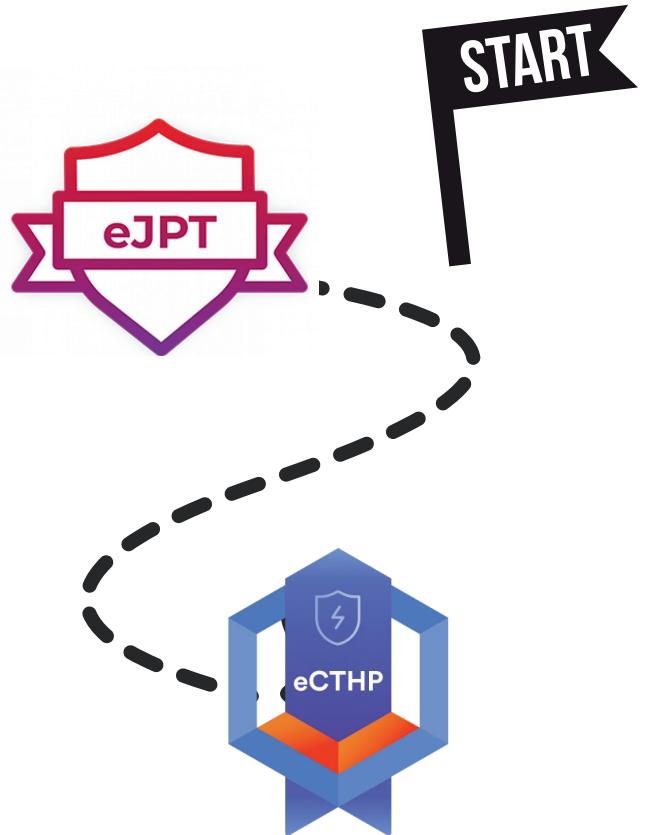
1. **incident response**



Getting Started in Cybersecurity

- **Defensive Cybersecurity**

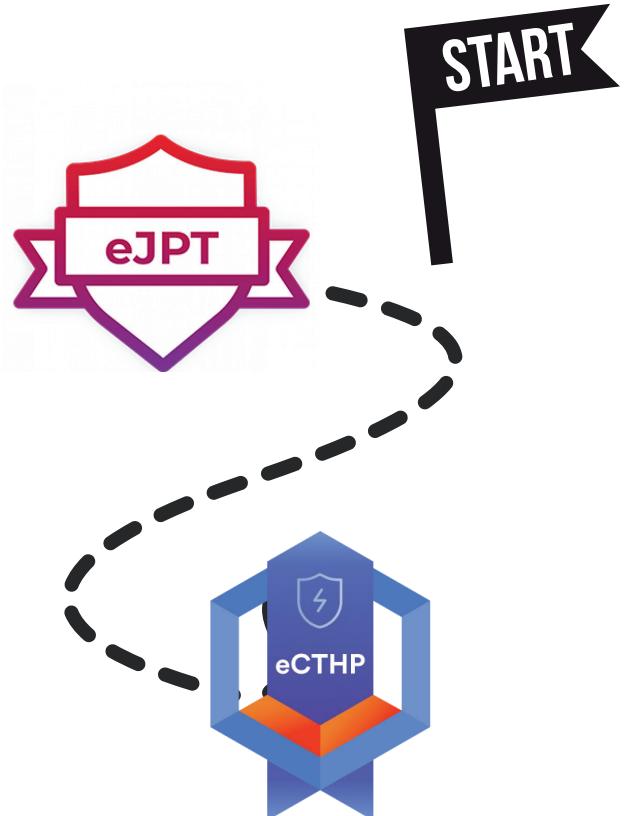
1. Threat hunter



Getting Started in Cybersecurity

- **Defensive Cybersecurity**

1. Digital forensic



Getting Started in Cybersecurity

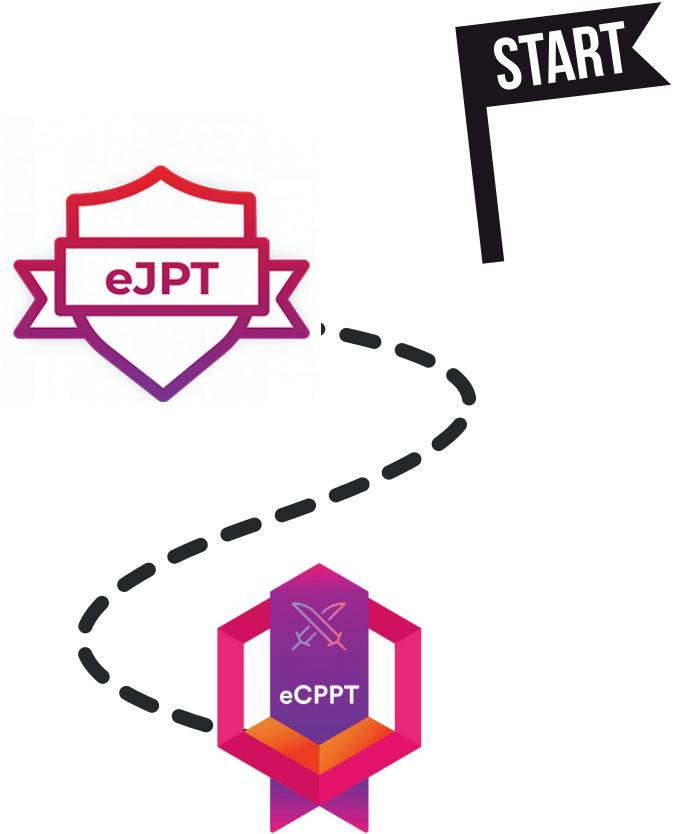
- **Defensive Cybersecurity**

1. Network Security



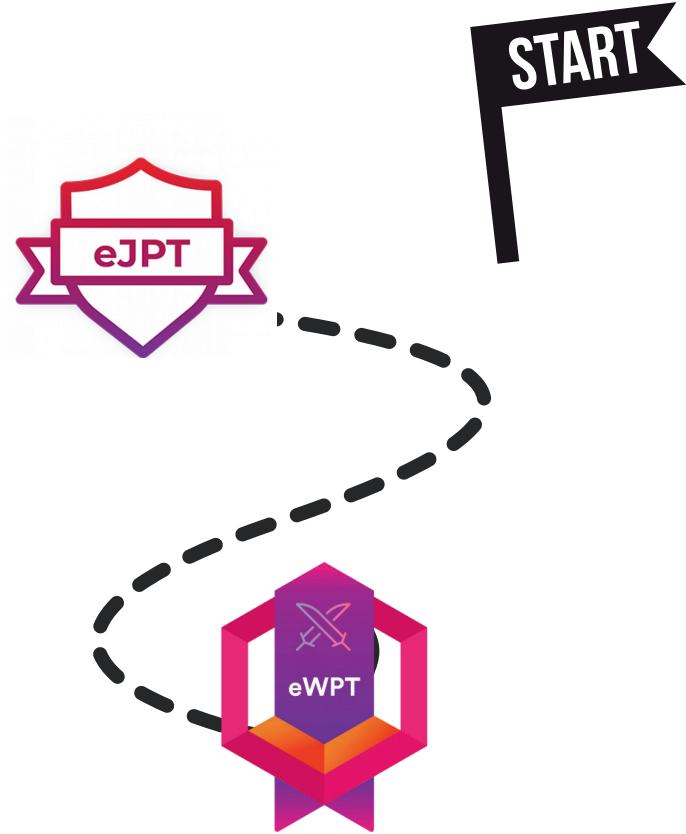
Getting Started in Cybersecurity

- **Offensive Cybersecurity**
 - Penetration Testing
1. **System**
 2. **Web**
 3. **IOT**
 4. **Mobile**



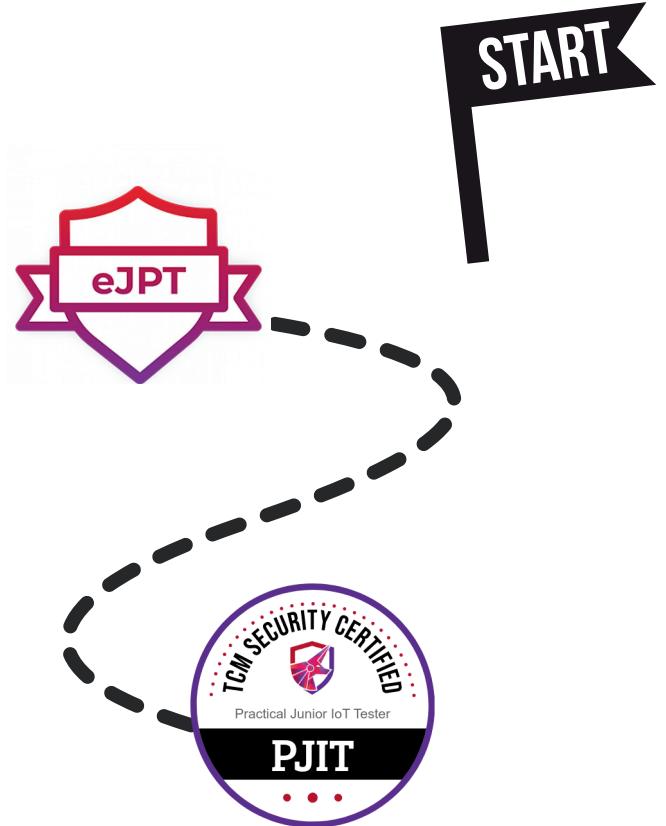
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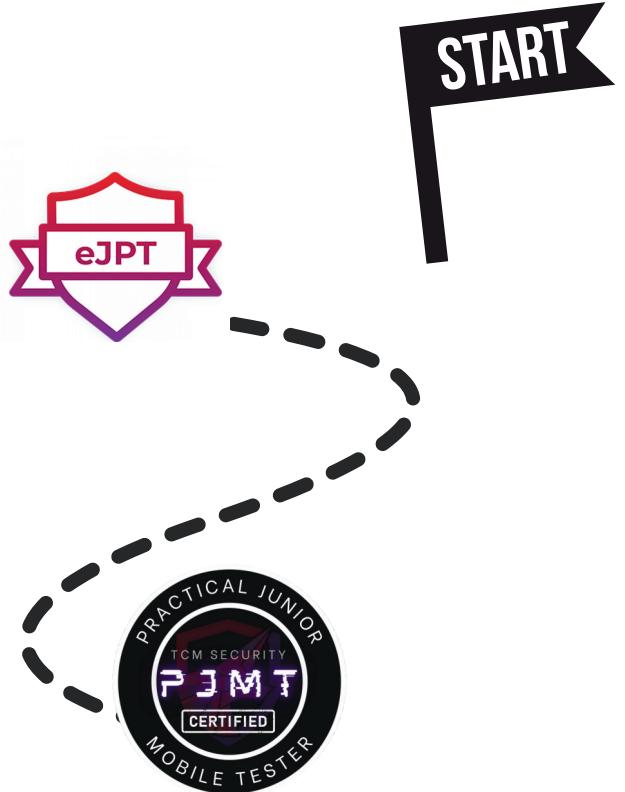
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Getting Started in Cybersecurity

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Getting Started in Cybersecurity

- Governance, Risk, and Compliance (GRC)



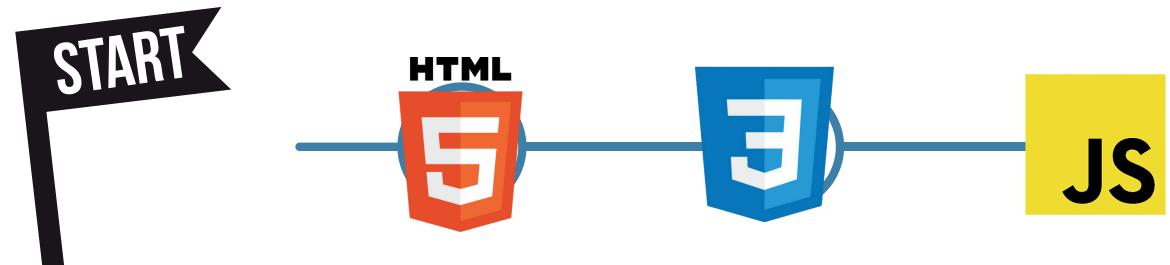
Getting Started in Cybersecurity

- **Programming basics**

1. Warning The basics of programming must be fixed, and also your choice of programming is based on your goal and path, not random.

2. **Web Development**

3. Mobile Development
4. Machine Learning
5. Embedded Systems
6. Software Development



Getting Started in Cybersecurity

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VS



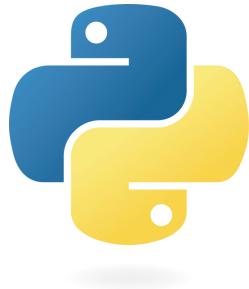
VS



Getting Started in Cybersecurity

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Getting Started in Cybersecurity

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4. Machine Learning
5. **Embedded Systems**



Getting Started in Cybersecurity

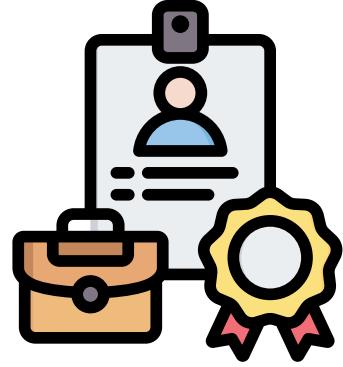
- **Learning resources**

1. Youtube
2. [satr.codes](#)
3. [Cyberhub](#)
4. [INE.com](#)
5. [hack the box](#)
6. [netriders.academy](#)
7. [www.coursera.org](#)
8. [udemy.com](#)

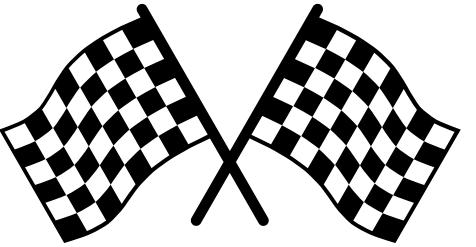


Job Titles in Cyber Security

1. Penetration Testing
2. Web Penetration Testing
3. Mobile Penetration Testing
4. System Penetration Testing
5. Cloud Penetration Testing
6. Application Security
7. Web Application Security
8. Cloud Security
9. Cyber Security Consultant
10. Reverse Engineering
11. Malware Analyst
12. Cyber Security Analyst
13. Mobile Application Security
14. Security Operation Center (SOC)



Contact information



Thank you

Turki Al-Juaid Instructor
cybersecurity

