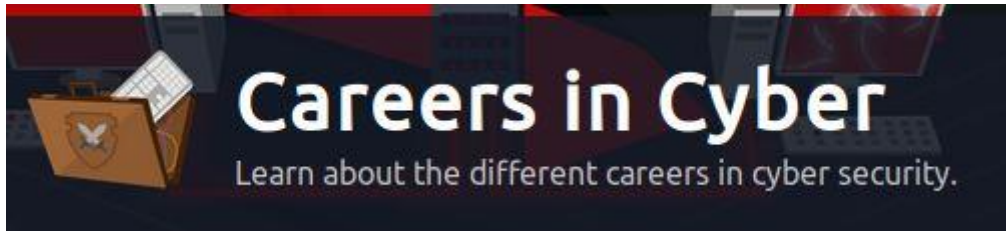


TRY HACK ME: Careers in Cyber



Task 1 Introduction-

Cyber security careers are becoming more in demand and offer high salaries. There are many different jobs within the security industry, from offensive pentesting (hacking machines and reporting on vulnerabilities) to defensive security (defending against and investigating cyberattacks).

Why get a career in cyber:

High Pay - jobs in security have high starting salaries

Exciting - work can include legally hacking systems or defending against cyber attacks

Be in demand - there are over 3.5 million unfilled cyber positions

This room helps you break into cyber security by providing information about various cyber security roles; it also links to different learning paths that you can use to start building your cyber skills

Task 2 Security Analyst –

Security analysts are integral to constructing security measures across organisations to protect the company from attacks. Analysts explore and evaluate company networks to uncover actionable data and recommendations for engineers to develop preventative measures. This job role **requires working with various stakeholders to gain an understanding of security requirements and the security landscape.**

Responsibilities

Working with various stakeholders to analyse the cyber security throughout the company

Compile ongoing reports about the safety of networks, documenting security issues and measures taken in response

Develop security plans, incorporating research on new attack tools and trends, and measures needed across teams to maintain data security.

Learning Paths

TryHackMe's learning paths will give you both the fundamental technical knowledge and hands-on experience, which is crucial to becoming a successful Security Analyst.

Pre Security

Cyber Defense

Task 3 Security Engineer –

Security engineers develop and implement security solutions using threats and vulnerability data - often sourced from members of the security workforce. Security engineers work across circumventing a breadth of attacks, including web application attacks, network threats, and evolving trends and tactics. The ultimate goal is to retain and adopt security measures to mitigate the risk of attack and data loss.

Responsibilities

Testing and screening security measures across software

Monitor networks and reports to update systems and mitigate vulnerabilities

Identify and implement systems needed for optimal security

Learning Paths

TryHackMe's learning paths will give you both the fundamental technical knowledge and hands-on experience, which is crucial to becoming a successful Security Engineer.

Cyber Defense

JR Penetration Tester

Offensive Pentesting

Task 4 Incident Responder –

Incident responders respond productively and efficiently to security breaches. Responsibilities include creating plans, policies, and protocols for organisations to enact during and following incidents. This is often a highly pressurised position with assessments and responses required in real-time, as attacks are unfolding. Incident response metrics include MTTD, MTTA, and MTTR - the meantime to detect, acknowledge, and recover (from attacks.) The aim is to achieve a swift and effective response, retain financial standing and avoid negative breach implications. Ultimately, incident responders protect the company's data, reputation, and financial standing from cyber attacks.

Responsibilities

Developing and adopting a thorough, actionable incident response plan

Maintaining strong security best practices and supporting incident response measures

Post-incident reporting and preparation for future attacks, considering learnings and adaptations to take from incidents

Learning Paths

TryHackMe's learning paths will give you both the fundamental technical knowledge and hands-on experience, which is crucial to becoming a successful Incident Responder.

Cyber Defense

Task 5 Digital Forensics Examiner –

If you like to play detective, this might be the perfect job. If you are working as part of a law-enforcement department, you would be focused on collecting and analysing evidence to help solve crimes: charging the guilty and exonerating the innocent. On the other hand, if your work falls under defending a company's network, you will be using your forensic skills to analyse incidents, such as policy violations.

Responsibilities

Collect digital evidence while observing legal procedures

Analyse digital evidence to find answers related to the case

Document your findings and report on the case

Task 6 Malware Analyst –

A malware analyst's work involves analysing suspicious programs, discovering what they do and writing reports about their findings. A malware analyst is sometimes called a reverse-engineer as their core task revolves around converting compiled programs from machine language to readable code, usually in a low-level language. **This work requires the malware analyst to have a strong programming background, especially in low-level languages such as assembly language and C language.** The ultimate goal is to learn about all the activities that a malicious program carries out, find out how to detect it and report it.

Responsibilities

Carry out static analysis of malicious programs, which entails reverse-engineering

Conduct dynamic analysis of malware samples by observing their activities in a controlled environment

Document and report all the findings

Task 7 Penetration Tester –

You may see penetration testing referred to as pentesting and ethical hacking. A penetration tester's job role is to test the security of the systems and software within a company - this is achieved through attempts to uncover flaws and vulnerabilities through systemised hacking. Penetration testers exploit these vulnerabilities to evaluate the risk in each instance. The company can then take these insights to rectify issues to prevent a real-world cyberattack.

Responsibilities

Conduct tests on computer systems, networks, and web-based applications

Perform security assessments, audits, and analyse policies

Evaluate and report on insights, recommending actions for attack prevention

Learning Paths

TryHackMe's learning paths will give you both the fundamental technical knowledge and hands-on experience, which is crucial to becoming a successful Penetration Tester.

JR Penetration Tester

Offensive Pentesting

Task 8 Red Teamer –

Red teamers share similarities to penetration testers, with a more targeted job role.

Penetration testers look to uncover many vulnerabilities across systems to keep cyber-defence in good standing, whilst red teamers are enacted to test the company's detection and response capabilities. This job role requires imitating cyber criminals' actions, emulating malicious attacks, retaining access, and avoiding detection. Red team assessments can run for up to a month, typically by a team external to the company. They are often best suited to organisations with mature security programs in place.

Responsibilities

Emulate the role of a threat actor to uncover exploitable vulnerabilities, maintain access and avoid detection

Assess organisations' security controls, threat intelligence, and incident response procedures

Evaluate and report on insights, with actionable data for companies to avoid real-world instances

Learning Paths

TryHackMe's learning paths will give you both the fundamental technical knowledge and hands-on experience, which is crucial to becoming a successful Red Teamer.

JR Penetration Tester

Offensive Pentesting

Red Team Learning Path (coming soon)

That is all for this Write-up, hoping this will help you in getting a suitable cyber security career for yourself. Have Fun and Enjoy Hacking! Do visit other rooms and modules on TryHackMe for more learning.

-by Shefali Kumai

For more cyber security learning follow me here-

<https://github.com/ctf-time>

<https://www.youtube.com/channel/UCf-F-eATCUXYaUVk8XI7OOQ>