

Your Guide to Breaking Into Cybersecurity

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Across the globe, an alarming **3.5 million cybersecurity jobs** remain unfilled, leaving critical systems increasingly vulnerable to attack. How can I break into this industry?

What is the CompTIA Security+ certification?

This certification helps validate a person's knowledge of the foundation of cyber security concepts. The purpose of this certification is to ensure professionals pursuing IT and cybersecurity have the knowledge and skills to perform security functions, and it helps further their career in this field. This is a well-respected certification as it is not tied to any company that sells it as a service. It is often required in positions in government and corporate IT.

Future cyber security enthusiasts who are interested in this exam should have a strong understanding of various types of attacks and vulnerabilities, the implementation of secure systems and networks, and how operations work and how to respond to incidents.

What foundations should I know to get into cyber security?

Soft Skills

- Problem solving and communication
 - Be able to thoroughly explain security incidents

Basic IT and Networking Knowledge

- Operating systems such as Linux and Windows
- Networking fundamental such as Transmission Control Protocol/Internet Protocol (TCP/IP), Domain Name System (DNS), firewalls
- Common protocols (Hypertext transfer protocol (HTTP), HTTPS (Secure), File Transfer Protocol (FTP))

Security Concepts

- CIA Triad (Confidentially, Integrity, Availability)
 - Authentication, Authorization, Accounting (AAA)
 - Malware types, phishing, ransomware
 - Risk Management and mitigation

Tools and Technologies

- Firewalls, VPNs, antivirus software
- Security Information and Event Management (SIEM) tools such as Splunk, QRadar
- Basic scripting (Python, Bash, PowerShell is helpful)

Regulations and Compliance

- National Institute of Standards and Technology (NIST) and Health Insurance Portability and Accountability Act (HIPAA)

What jobs can I get in cybersecurity?

- o Security Analyst
- o IT Security Administrator
- o Cybersecurity Technician/Analyst
- o Network Security Analyst
- o Risk Analyst

Interested in learning more? Healthcare cyber security is a growing niche!

In the healthcare industry, technology is critical, as it includes numerous types of hardware, software, and cloud services, making it vulnerable to cyberattacks and increasing the demand for professionals in this field.

At HTAA IT Institute we provide a course on security and privacy in healthcare, helping healthcare professionals grow their knowledge on the fundamentals of cyber security with workshops and case studies. This learning experience ranges from understanding cybersecurity best practices to performing a security risk assessment independently.

Go to <https://www.htaitinstitute.org/learn> to start your career now!

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