Week 1 Playbook Entry: Introduction to Security Concepts

* The Principles of Information Security

Information Security are the measures taken to protect data and information from hackers and anyone else unauthorized from accessing it. To maintain security, data should become harder to access the more sensitive it is. The convenience of accessing the data should also be inversely proportional to how sensitive the data is.

* The CIA triad

CIA in the context of Information Security is an acronym for Confidentiality, Integrity, and Availability. Data must be confidential, no one who isn’t allowed to access it should be able to access it. Only people who are allowed can access it. This is of the utmost importance when considering medical data, which is legally protected by HIPPA. Data Integrity is also very important, the data must be correct, it can not be modified by outside parties. Payment information, or programs being transportanted must not be affected by anyone trying to meddle with the data externally. Availability, or the ability for approved parties to access the data is just as important as making sure that those who shouldn’t be allowed to access it are prevented from doing so.

* Information Security vs Cybersecurity

While often overlapping, Cybersecurity is a term that refers to the protection of technological threats. Not all threats however are technological in nature, so the term Information Security refers to the protection of all information in all formats, not just technological.

Key Takeaways

* Information security isn’t just about limiting information access, but is also about making sure that everyone who needs it can access it.
* The CIA triad is primarily about making sure that business moves smoothly.
* Cybersecurity is just apart of the broader discipline of information security

Lab Summary

* Threat Vectors and Attack Surfaces

In this Lab, the goal is to identify the various vectors of attack that hackers have access to

* Closed any unnecessary ports
* Disabled automatic login and guest accounts
* Looked for vulnerabilities in the software being ran

Real World applications

Medical information is some of the most important data that can be protected, legally it is some of the most protected information, but it absolutely needs to be securely transported to the medical personnel who need it, so each part of the CIA triad are important, you need it to be 100 percent accurate, only those who are legally allowed to access it should see it.

Future Goals

In the future I am hoping to learn more about the actual practices used in security.