**ISEC-615 - Fundamentals of Cybersecurity**

**Cybersecurity Principles Assignment No. 1.**

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**Cybersecurity Definitions:** Identify and quote three different definitions of Cybersecurity - with sources, where one should be government source (ensure to quote per APA, cite the reference with exact page number of the source!).

As the world continues to advance into the Digital Era the topic of cyber security becomes a more prevalent force. Now-a-days cybersecurity threats are an ever increasing risk for Government, Business, and for the consumer. Every day malicious forces are trying to adapt and overcome these cybersecurity defenses for either financial or political gain. But, what is cybersecurity? The [National Initiative for Cybersecurity Careers and Studies](https://niccs.us-cert.gov/) defines cybersecurity as **“**The activity or process, ability or capability, or state whereby information and communications systems and the information contained therein are protected from and/or defended against damage, unauthorized use or modification, or exploitation.”( Niccs Glossary,2019). Cybersecurity is a pretty unanimous term across all regions and are neighbors to the east in the United Kingdom define Cybersecurity as “a subset of information security. It specifically focuses on protecting computer systems and their components – including hardware, software and data – and digital infrastructure from attack, unauthorized access or being otherwise damaged or made inaccessible. Data centers, websites, programs, servers, or accounts can all be exploited through a cyber-attack.”(ItGovernanceUK, 2019). As from government entities the corporate sector also has their input on what cybersecurity defines. Paloalto networks defines cybersecurity as “a set of techniques used to protect the integrity cyber networks, programs and data from attack, damage or unauthorized access.”(What is cybersecurity Paloalto 2019.)

Principles of Cybersecurity: Identify and quote the definitions of each of the principles of cybersecurity (follow APA!)

In Cybersecurity there is the basic principles of CIA, confidentiality, integrity, and availability.These principles all intertwine and directly correlate all with eachother. For short example the more confidential your data is the less available it is.

Tripwire describes confidentiality as “afafadafadfadsfdfdsaafsa” (EdonNov,2105)

Techopedia states that integrity is “sadfadsfasdfasdfsadfasdfadsfasdfasdf” (Staff, T 2017.)

It has been said that availability is “asdfdsafasdfasdfdsafdasf” (Lavendaer, L ,2019 pg47)

 **Overall Security:** In your own words (no quotes, but use references), describe how each of the fundamental concepts of the cybersecurity discipline is used to provide overall system security

 **Assured Operations:** In your own words (no quotes, but use references), describe why each principle is important to security and how it enables the development of security mechanisms that can implement desired security policies in organizations

 **Conclusion:** In your own words (no quotes, but use references), provide a conclusion that summarises the whole paper.

Work Cited.

EdonNov, P. (2015, November 30). The Three Principles of a Secure System. Retrieved May 19, 2019, from https://www.tripwire.com/state-of-security/security-awareness/the-three-principles-of-a-secure-system/

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