**MEMORANDUM – 2 MINUTE BRIEFING 1**

**TO:** CASEY G. CEGIELSKI, PH. D, CISSP, CISA, CRISC

**FROM:** CENSORED

**DATE:** 8/21/19

Information security is a practice that involves scanning a business’ security and offering ways to help improve it so that there are no breaches in information from a 3rd party without official access being granted; this involves three aspects, which are confidentiality, availability, and integrity. I will explain these concepts in further detail using examples involving business material.

Confidentiality means to keep information secure and on a need-to-know basis so that unauthorized access of data, information, or systems is negligible, sort of like important security clearance codes to access parts of the bank; the employees who possess this knowledge need to keep confidentiality on what the codes are so that people unaffiliated with the bank cannot get them, and those who do not have this authorization should not be able to get these codes. This also means that employees with knowledge of customers’ banking information or personal information should keep it confidential, i.e., not share it with others. Availability is a measure of how available your business is, and how a disruption of service can be prevented; this is much like how a banking application needs to experience minimal downtime so that customers’ can access their funds 24/7, and attacks like DDoS attacks should be prepared for and mitigated. Integrity means that unauthorized modification of data, information, or systems should be prevented, i.e., a security guard, or someone else without the proper authorization, should not have access to important customer records or an employee login to the information servers.

If the current security system is flawed or has had breaches, restructuring it from the ground up and focusing on these core security principles should prevent future breaches. With these three aspects being constantly monitored and enforced, information security is an easy thing to maintain within a business.