Activity 1.1.1 - CIA Triad Card Game

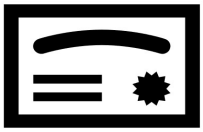
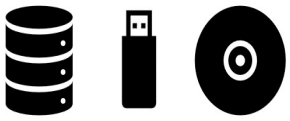
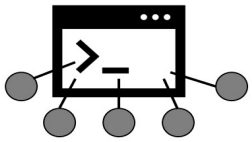
Information States and Characteristics

Team Name _____

Instructions

- Cut out the set of cards that are labeled, "Cut these cards out…"
- Read each example and determine which cross-section the card belongs in by considering which part of the CIA Triad it is addressing along with the correct information state.
- Place all 9 example cards into the matrix.
- Example: "Javier's Concern" indicates that he wants to encrypt his hard drive. Since encryption will restrict usage of the information to just those who need to see it and the information is stored on his hard drive, Javier's card would fit under Confidentiality and Storage on the matrix.

Source: Andreea Cotoranu, 2019 Pace GenCyber Workshop, Pace University

Directions: You have 9 cards to place in this matrix. Find the cross-section where the example card fits both the characteristic of information and the state of information.			
	Confidentiality	**Integrity**	**Availability**
	Ensuring access to information is restricted only to users, processes, or devices that are authorized.	Ensuring that information is a true and accurate representation of data. It is also the prevention of unauthorized modification or destruction of information.	Ensuring that reliable access to the information by authorized users, processes, or devices.
 **Storage** Information is stored when it is at rest, usually on a device such as a hard drive, memory, CD/ DVD, or thumb drive.			
 **Transmission** Information is in transmission when it flows from one location to another, usually over some medium such as network cables, Wi-Fi, or audio waves.			
 **Processing** Manipulating data within the computer. This includes calculations by the CPU, spreadsheets, and programs and other devices.			

Source: Andreea Cotoranu, 2019 Pace GenCyber Workshop, Pace University

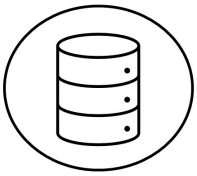
Cut these cards out to place them in their correct location in the matrix above.

Javier's Concern

Javier is concerned about sensitive data on his drive. He is goin to use AES-based symmetric encryption to quickly password protect the data.

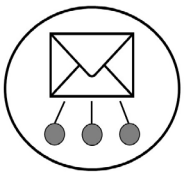
Unsure Bob

Bob is unsure how to send emails so that no one can read them except the intended recipients.



Need More Power

Isabella is trying to run an application on a device with 4GB of RAM. However, when she launches the application, the app runs slow and freezed periodically. She consulted IT and they informed her that she needs a more powerful device.

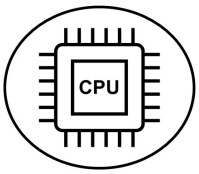


Hot Sites

Rain's business relies on constant email communication to communicate with her clients. She maintains a hot site facility as well a strong disaster recovery plan offsite to protect the flow of information between her company and her clients.

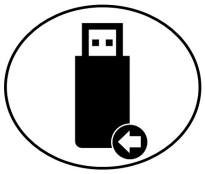
Steve Again

When Steve saves files to the company computer, he does not look at the file path. Steve constantly calls IT asking them to find files on his computer. However, Steve is not the only employee with this problem. The CIO suggests Cyber Inc. hold a training on saving documents.



CPU Issue

Martha reads an article that warns of new CPUs incorrectly calculating large values.



Weekly Backups

Charles creates weekly backups of his company's code repository on flash drives. Company rules require him to then check these flash drives into a monitored facility to ensure that they are not altered by anyone else.

Jain's Data

Jain's company works with sensitive data. In order to ensure the security of that data, they have a rule to use only their private servers to compute/modify that data.

Digital Signature

Jason emailed sensitive company information to a customer in another country. Jason digitally signed the message and the email was checked by the recipitent and determined to be a true copy of the origninal email.