

Colonial Pipeline is one of the largest fuel pipeline operators in the United States, transporting around 45% of all fuel consumed on the East Coast. In early May 2021, the company became the victim of a **ransomware attack** in which hackers gained access to its internal systems, encrypted data, and demanded payment for the decryption key.

Although the operational technology (OT) that controlled the pipeline was not directly attacked, Colonial shut it down as a precaution, fearing the spread of malware to critical systems.

Based on the above Case study, you are suppose to do a CIA mapping based on the following format:

Confidentiality	Integrity	Availability	Failure point	What additional defense that could be deployed.

Note:

Study about the attack and prepare the table above. “ What additional defense that could be deployed” mean that you have to find the mitigation strategy, you have to suggest defense system that could mitigate the problem.