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## Write-Up: The CIA Triad

The CIA Triad is the baseline of cybersecurity it tells us what standard we should uphold. First, we have the C in the CIA Triad which is Confidentiality. Confidentiality is the principle of protecting Classified or sensitive information from those who shouldn't have access to it. This involves giving permissions and locking out others from sensitive information, making sure that all your files and information are encrypted, and making sure that all personnel who interact with your network are properly trained and have everything encrypted using Two Factor Authentication. The I stands for Integrity. This means that you have all your data secure and not corrupted. This also means having your security, hashes, and systems up to date. Lastly, the final letter A means Availability. Availability is preventing system failures and times when the system is fully down. Availability is also making sure that you have a plan to minimize the time your are down by having backup plans and data recovery systems in place. Finally the difference between Authentication and Authorization. The main difference is that Authentication is verifying the user or system usually through usernames and passwords. While Authorization is the limitations on what you can do. This includes what type of permissions and access to files you have