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Triad Breakdown

The CIA Triad is a foundational principle of security as a whole. Confidentiality is all things privacy but more specifically it ties to the goal of keeping unauthorized individuals from sensitive information. Integrity, focuses on keeping Information clean from impurities throughout transit and from being altered. Availability is quite simple, for its purpose to make sure the information is readily accessible to those who have proper access to it. Without the use of the CIA Triad, security endeavors would be pretty for businesses. Malicious hackers with various motives would have a field day plowing through all of the internal errors of the company.

Now on to the topic of authentication and authorization. "Authentication in cybersecurity is the critical process of verifying the identity of a user, device, or system before granting access to resources" (CSRC). "Authorization in cybersecurity is the process of granting or denying specific access rights and permissions to an authenticated user, system, or process." (Palo Alto Networks). So here is a simple example of both terms. As an employee clocks into work he may use an authentication method like a key card or username/password screen on his computer. Once he's settled in, it's now up to the system to decide what type of authorization he has; such as, having proper clearance to pass through high level doors, what he is allowed to change in

regards to the companies files, and etc. Authentication and authorization must work hand and hand in order to fully secure a corporation's perimeters.