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Linux activity reflections

Task 1 Reflection

User Management was the focus of task number 1. User access Control is an integral element of cybersecurity. Controlling access to the system helps to secure sensitive information such as customer data, business processes, etc. Linux’s user management commands allowed me to create a user account and password. Creating a user account with the Linux commands is like creating credentials to give authorized personnel access to a system. I also created a security group and added the user to that group. Grouping users together grants them certain privileges and access rights. In cybersecurity, you can think of it as assigning permissions to a user based on their responsibilities. Users should only be able to access information and resources needed for their job. This helps maintain system security.

Task 2 Reflection

File operations are important when it comes to data management. It is critical to know how to create files because it is the first step in managing data. You can think of it as creating a new document in MS Word. In cybersecurity, you must know how to organize files to ensure data integrity and security. We used Linux commands to copy files within the directory. Renaming files is common, and in cybersecurity, we may have to rename files to maintain confidentiality or indicate a new status. You can think of it like managing files in a locked file cabinet.

Task 3 Reflection

To safeguard data, we must ensure that access to the data is limited to those who need it. In cybersecurity, we use an Access control list and permissions. Creating these file permissions in the Linux system made me think about how important it is to keep that data safe. If an unauthorized person were to gain access to sensitive data, there could be major repercussions.

Task 4 Reflection

In the Linux OS, process management commands can be used to terminate, identify, track, and start background processes. In cybersecurity we use tools IDS and EDRs to monitor and track processes. Linux OS commands provided a foundation for understanding what goes into managing and monitoring processes. It is important to monitor these processes to respond to threats quickly and effectively.

Task 5 Reflection

In cybersecurity, it is important to understand the devices you are trying to secure. Through this Linux activity, I was able to explore and learn more about the system and hardware devices. Having a better understanding of the system you are trying to secure allows you to better understand what you need to do to secure it.