Reflection and Learnings	
Course Code: CPE 212	**Program:** Bachelor of Science in Computer Engineering
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Reflection:

Throughout this course, I realized that my learnings as well as my perspective in system administration has tremendously widened, it has shifted from manual automation to full-scale automation. With the first hoas, specifically the basic linux commands and ssh keys seemed difficult, but I still managed to understand its purpose because these serve as the primary foundation when learning Ansible. It is fascinating to see how every playbook could turn into complex roles that manage an entire server and monitoring the stacks efficiently. This journey that I went through in this course taught me that while learning how to debug a code takes patience, the ability to simplify or automate a complex work with only a single command is a rewarding skill.

Learnings:

Throughout these activities, I have gained many concepts, specifically through the use of ansible for configuration management. I learned how to structure inventory files, write reusable playbooks using roles, and seamlessly integrate monitoring tools like the elastic Stack and grafana. The transition into containerization with docker was a major highlight, showing me how to package applications and their dependencies for consistent deployment across any environment. These skills have not only improved my workflow efficiency but also gave me the confidence to handle real world server management scenarios.