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Reflection

The fundamental abilities needed to manage enterprise servers were studied and taught to us during this course. Every subject progressively expanded on our prior knowledge and skills from the start to the end, preparing us for actual server management and automation situations.

We learned from these lessons how crucial version control, teamwork, and automation are to contemporary software development. Setting up and maintaining different monitoring services, including availability, performance, and logs, became more practical as we entered the midterm period. The importance of keeping systems dependable and effective was highlighted by these exercises.

Everything came together in the last period when we learned how to set up Docker based containerized environments. These lessons illustrated how cloud platforms offer scalable and dependable solutions for enterprise environments, and how containerization streamlines application deployment.

Our knowledge of how contemporary systems are developed, maintained, and scaled has been greatly influenced by the tools we used, including GitHub, Git, Ansible, and Docker. We learned a lot from each tool: Docker for building isolated environments that function flawlessly across platforms, Ansible for automating configurations, and Git for managing changes.

All in all, CPE 232 has been a life-changing experience. It inspired us to keep learning and developing as future engineers and equipped us to manage the demands of enterprise environments. We have learned from this course how important it is to remain proactive and flexible, traits that will help us in our careers.