

## Executive Summary

Part of your completed assignment submission should be an executive summary containing an "Assignment overview" (1 paragraph, up to about 250 words) explaining what you understand to be the purpose and scope of the assignment and a "technical impression" (1–2 paragraphs, about 200–500 words) describing your experiences while carrying out the assignment. The assignment overview shows how well you understand the assignment; the technical impression section helps to determine what parts of the assignment need clarification, improvement, etc., for the future.

Body:

As an overview of this project, I have to say I put a lot of work into it, especially in the condition the deadline of a homework overlapped with this project deadline. Also, I'm still looking for an intern these days and the time is close to the mid-term exam. Through this project, for the part1, I learnt a lot about CICD process step to step using AWS and Docker. And for the part 2, I reviewed the work before, and learnt some more techniques about Lambda and S3 triggers. This would be helpful for my understanding and long-term memory.

For the part 1, CICD is the combined practices of continuous integration (CI) and either continuous delivery or continuous deployment (CD). CI/CD bridges the gaps between development and operation activities and teams by enforcing automation in building, testing and deployment of applications. The process contrasts with traditional methods where all updates were integrated into one large batch before rolling out the newer version. Modern day DevOps practices involve continuous development, continuous testing, continuous integration, continuous deployment and continuous monitoring of software applications throughout its development life cycle. The CI/CD practice, or CI/CD pipeline, forms the backbone of modern-day DevOps operations. And for the part 2, I have a better understanding of how lambda works (with other storage service) and how it is deployed.

Through the process of deployment and some programming, I understand how the EC2, S3, container, Lambda, git, code pipeline, Load balancer work better. Also, lots of effort could be favorable to Linux system operation and the relationships between various of services of AWS. Through the comprehensive application of them, I believe, in the future, I can cooperate with team members of the class could computing, my friends or colleagues to complete larger projects in a more efficient way. I'm grateful for the experience.