

Katie Stapleton
CS 470
Module 8
12/14/2021

CS 470 Final Reflection

I have gained the basic knowledge of the cloud development. I learned containerization, Amazon Web Services, and how to transfer local development into the cloud. My strengths as a software developer are back-end stack, object-oriented programming, and troubleshooting. I believe the roles that match my skills are software developer, software engineer, and IT team leader.

Serverless can product efficiencies in application management. Developers can share, communicate, and test the application together instead of locally. The cost and scalable of a website may be reduced by creating independent functions. I would base scaling on the demand of the product or service and its relation to the frequency of usage. I would estimate the cost based on how the application is managed, maintained, and hosted. Containers are most cost predictable than serverless. Serverless and containers can also be combined.

Other factors should be considered before expansion. It needs to be analyzed how the application is transferrable. Some applications are modern and/or easily separated. Other application may still relay on outdated technology, where its best to rewrite the application. Another factor is flexibility and utilization. A cloud may be able to offer all the services the application needs. However, some application use multiple programs and vendors that are not necessarily capable; merging and uploading may lead to challenging issues to overcome.

For planned future growth, elasticity and pay-as-you-go services may affect decision making. Pay-as-you-go is a potential pro and con itself. When usage is lower or about the same

as predicted, pay-as-you-go is an excellent option. However, if the budget did not also account for unpredictable moments or time frames of higher usage, the payment plan may hurt the company. Elasticity is used to help maintain minimal usage of the services. It produces the services need for that specific moment. The services will be changed to inactive with no fees.

Cloud Presentation: <https://youtu.be/bLtvqHoPSao>