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Final Reflection

The link to the final project presentation: <https://youtu.be/5F69x9J6AsY>

- What skills have you learned, developed, or mastered in this course?
 - Throughout this course I was able to learn how to utilize cloud development tools to migrate a local program to the cloud. I also learned how to utilize the functionality of containerization to make the integration to the cloud easier and smoother. Being able to take the instruction of my professor I was able to make myself a more ideal candidate for a position in a company with proprietary software and systems. I was able to add a new skill to my skill set to make myself more marketable. The biggest thing I have developed or mastered is the understanding of the ever evolving world of technology. It has taught me that there is always something to learn or study or a new concept to understand.
- Describe your strengths as a software developer.
 - My strengths as a software developer is being able to reach out for help when needed. I will exhaust all of my options prior to directly reaching out to challenge myself and try to figure out the issues with the knowledge I have learned throughout my educational career. But, when needed I do not shy away from asking for help.
- Identify the types of roles you are prepared to assume in a new job.
 - I believe this course and the others I have taken at SNHU and my personal life I believe has gotten me prepared to take a leadership position or a position as a developer. With the skill set I have learned in this course I have broadened my scope to cloud development.
- How would you handle scale and error handling?
 - AWS is able to handle scaling with the built in auto scaling service inherent in AWS cloud services. It will automatically scale the service based on the traffic your cloud service receives. The way you are able to handle errors using lambda and step functions within AWS.
- How would you predict costs?
 - When you are utilizing AWS there is an included tool that is used to accurately predict cost. It allows you to gauge the average usage/ traffic and the cost associated with them. With this tool you are able to better predict and understand traffic patterns on your service and AWS will offer you savings plan based on the traffic to save your company money.
- What is more cost predictable, containers or serverless?
 - Both offer accurate ways to predict costs. I do feel that serverless is more accurate and is able to better predict the future cost of your service. Serverless options might be easier for companies to monitor their service than containers.
- Explain pros and cons that would be the deciding factors in plans for expansion.
 - When a company is looking to expand a service one of the major things to look at is the cost or cost effectiveness of the options in front of them. When it comes to

cloud services to traditional servers AWS has clear and concise pricing when it comes to expansion. Something to consider when looking at physical servers is the downtime of your service when expansion or upgrades are needed. There is also little to know upfront cost with cloud services where starting a physical server can be thousands.

- What roles do elasticity and pay-for-services play in decision-making for planned future growth?
 - When a company is looking towards the future the expectation of growth and the costs and pains with it should be in the forefront of their minds. There are two options elasticity and pay-for-service. Elasticity allows for a company to have truly on demand control over it and make changes pretty much instantly to meet the services traffic. Pay for service allows a company to pick and choose the specific services that they need. Both of these options allow a company to adjust to more or less traffic with ease, so it is truly up to the company and what they see as the most cost effective.