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8.20.24

CS 470 Final Reflection

<https://youtu.be/Q2oQ2q21Wu0>

In this course, I learned a more in-depth process of moving an application to the cloud and how to keep the application secure. I learned more about different programs such as Docker Compose. I also learned about AWS and the different types of services they offer such as Lambda and IAM. We were able to get hands-on training on how to use these services. I learned about the benefits of using the cloud and comparing them to a more traditional like local storage. During this course and previous courses, I've also collaborated with other students to help bounce ideas and offer support which can help with future jobs and coworkers. I believe it is a good idea to get outside opinions especially when you are unsure. I will ask for help and offer help to others because it is better to work together than against. We all have the same goals. I have used critical thinking in this course. When choosing the best route you must consider all your options and decide what fits best with your goals. I have learned how to utilize resources. Sometimes I must do a little digging to find answers and learn how to apply them to what I need. These skills apply when planning for the growth of your application. There are pros and cons to using the cloud. What works best for your application will depend on goals and what's more important. For example, if you decide to use local storage you are responsible for replacing, upgrading, and maintaining on-premises data storage hardware and software. However, with cloud storage, you don't have to worry about that because the cloud provider manages the routine work and maintaining the underlying infrastructures. Another thing to consider is that cloud storage will have a longer response time than local storage and you need an internet connection to access the cloud storage. Although cloud services offer financial benefits such as elasticity which automatically adjust resources to match current demands. This means your application will be able to handle spikes in demands such as Black Friday sales. Without it, this could cause a delay which could overload the system and cause an outage. They also offer a pay-for-use model which means you only pay for what you use. This does come with responsibility since the costs can spike. The key is how to optimize costs such as setting the appropriate function timeout. The cloud has security services such as Identity and Access Management or IAM but with local storage you would have to hire IT staff. IAM helps with authentication and authorization. The cloud can offer a multitude of different services, but you give up some of your control.