**Week4 Podcast Reflection**

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IS 5503: Cloud Computing

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**Podcast Reflection: Esty’s data platform migration to cloud**

This week’s podcast was really inspiring to me that the guest speaker Kevin McHale from an online retail shopping website development team has little software or sales experience but a strong background in pure science math. However, he could play a fantastic and critical role in data science and software projects. It inspired me because I also majored in math before I started programming. It was also a good reminder to me that we should keep humble and hungry for new knowledge that we do not know. It did not matter what tasks we were assigned but keep on broadening our knowledgebase and sharpening the technique skills in different projects. Also, another important thing that I learnt from the podcast was the motivators to discover the cloud and data platform migration to Google Cloud Platform (GCP). The first trigger was a thorough assessment of the bottleneck of the on-premises data center along with the surprisingly increased eCommerce data volume. It was not strong enough just to simply lift and upgrade the volume of data storage. The guest speaker’s team continued rethinking and refactoring the existing pipeline to better accommodate new challenges and chances on cloud with high scalability, efficiency and performance compared to the increasing maintenance cost on cloud. The second motivator from Esty was decoupling the current monolithic data processing system which could be very risky to crash down all the services in case of a small failure. By moving to cloud with high decoupling priority, they successfully separate the monolithic centralized resources to independent modularized components so that each team would have their own computing resources without impacting each other. This had dramatically brought a huge success on the robust of the new data platform.

**References**

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