TaxSpot

Memo

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| To: | Mallory Jennings (CIO) |
| From: | Binyam Gebresenbet |
| cc: | James Mueller (CEO)  Peter Brezinski (CFO) |
| Date: | 05/11/2018 |
| Re: | estimated workload and memory requirements |

Me and my team are aware that our organization, TaxSpot is planning to make our software an online based system. This online based system will let our valuable customers use the direct client input feature for the next peak tax season (January through April). The current servers we have in hand are not enough to handle the memory we will be required to provide. To compete with our compotators, we need to invest in our server systems and continue building the website that will let customers file their own taxes from the comfort of their couch. I and my team have been doing repetitive research on what we should do to overcome this issue and we have come to an understanding that, it is time to purchase webservers. There are different cloud providers out there and therefore we don’t necessarily have to buy any hardware. The reason why we should use the cloud system is because our memory space requirements fluctuates significantly depending on the season. On tax seasons, which is from January through April, as you can see from the spreadsheet calculations and the diagram, our demand is at its peak and we are required with an approximate of 1TB which does not include non-functional consideration. After non-functional consideration, we need to have an estimate of 2.5TB total memory. The benefit of having twice the size of what we are required to have is, to minimize the risk of having a downtime. Downtimes will highly impact our revenues; therefore, we have to make sure they won’t happen at any cost. On the rest of the year, which is the off season, we won’t be required to have as much memory. Only a total of 510GB memory is enough to run our web-based system.

Now that you are aware of how much memory we are required to build the web-based system, let me walk you through the available options we have. We are lucky that cloud solutions are available for us because, the payments we have to make for the cloud providers will vary depending on the season. On peak Tax seasons, we will probably be using around 2TB of memory, so we will be paying accordingly. Comparatively on off seasons, we will pay for a memory that we will be using which is around 510GB, and this as well will have a good impact in our revenues. Another great benefit of using the cloud system is, incase our anticipated users exceed our estimations, the cloud automatically enlarges the size and our systems will not crush.

Finally, I would like to conclude my memo by informing you that, the DevOps system we are using makes sure that, whenever the tax rules experience any form of changes, we do not have to frustrate and close our offices. In fact, it is easy to update and fix the new rules that will be introduced. We do not have to rebuild the systems like the old days.