Flash Research Paper 1

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With 10 outages in the past year, it is pertinent for our company to make an investment to prevent such future losses. An opportunity to upgrade our datacenter from Tier 1 to Tier 3 may be an investment worth making, as it will save our company over $13M in the next three years alone. This is a result of the .31% increase in availability between the datacenters along with other features a Tier 3 datacenter offers that Tier 1 does not. To reduce the chance of suffering losses like the outages that occurred this past year, we must act now and upgrade our datacenters.

While implementing a new datacenter may be costly for seemingly little improvements, such an upgrade also grants benefits such as an increase in availability and N+1 redundancy. N+1 calls for redundancy in terms of components of the datacenter. N represents the actual component, while +1 represents an extra replacement that will be activated upon the failure of the original component. The .31% increase in availability, may seem insignificant, but when put into perspective how much downtime costs us per minute ($14800), and how many minutes of uptime we will gain from this upgrade, our savings per year will skyrocket.

The implementation of this project will give us 1629.36 additional minutes of uptime a year and will save us over $24M a year more than what we would save staying with a Tier 1 datacenter. Within first three years of this project, our company would have a benefit of $13M including one year of implementation. With these savings considered, upgrading our datacenter from Tier 1 to Tier 3 is undoubtedly the best option for our company moving forward.

(include benefit and net benefit)



*(Note: “Cost of Tier 3 in 3 Years” includes cost of 1 year of implementation that consists of the $35M for the Tier 3 Datacenter, and one year of Tier 1 Datacenter, and the cost of two years of the Tier 3 Datacenter. )*

Works Cited

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