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Virtualization and Cloud Computing

Upgrading our current data center to having virtual servers will save our company $9.2 million. Virtual servers provide server consolidation and also increase server capacity by between 50 to 60 percent. Currently, by having a database of strictly physical servers we are spending millions as opposed to saving millions by consolidating virtual servers qwith physical servers.

Using virtualization takes multiple servers and puts these machines on one physical server so they are using the same processor, storage, and other hardware. This centralizes them to one physical server so they are more easily managed. Another benefit to virtualization is server consolidation, which allows for a server’s resources to be used by multiple users simultaneously. Implementing server consolidation will increase every virtual server’s capacity from about 15-30% to over 80% making every server more economically viable.

Strictly physical servers will cost us $14 million dollars over three years, whereas a combination of 20% physical servers and 80% virtual servers will cost us $4.8 million over three years. We will be saving $9.2 million with this simple upgrade. We will also be maximizing capacity of each server with server consolidation, which will increase the efficiency of every machine.

Works Cited

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