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As it stands our company spends $8 million to create our 1000 servers needed to support the database. We also spend $2000 a year per server for maintenance issues. By using a system called VMware we could consolidate 10 servers into one, which would make the maintenance and purchasing costs go down.

VMware is a virtualization software that will allow us to use Cloud computing within our organization which means that most of our servers will be combined into one. VMware allows all of our information to be placed on one virtual machine without the use of a “physical PC”. By using Cloud computing it will result in cost reduction, reduced software maintenance, increased reliability, and more effective use of computer resources. Approximately 80% of our servers can be converted to VMware. The most compelling thing about VMware is that it consolidates servers in the database so that there are less servers and therefore less maintenance would be needed. By performing maintenance on one system it would be like fixing 10 other systems for a fraction of the cost.

In order to make this happen we actually be saving money. The costs of converting our servers to VMware would be $16,000 including system software. In comparison to our original layout, 10 servers individually would cost us $80,000 but when consolidated we would be saving $64,000. The maintenance costs would be $3,000 per server per year, which is a bargain in comparison to the $2,000 we pay to fix each individual server. After converting to VMware I calculated that the company would save at least $195,000 over a 3-year period.