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Enterprise IT Architecture

Flash Research 2: Virtualization and Cloud Computing

Our company can save \$9.2 million within three years by utilizing virtualization to consolidate workloads. By using virtualization, we can reduce costs, minimize downtime, and increase IT productivity. Currently, we have 1,000 servers in our data center. By switching to virtual machines, we can cut the number of servers by 80%. This will be more affordable and easier to maintain.

Virtualization allows several virtual machines to run on one physical machine. This allows the server's resources to be used to its maximum potential. Virtualization increases IT efficiency and productivity all while creating significant cost savings. By investing in VMware software, we can decrease our number of servers by 80%. It will allow us to consolidate 10 physical servers into 1 virtual machine, leaving us with 280 servers rather than the 1,000 servers we are dealing with now.

Our current system without virtualization is costing us \$8 million for the servers themselves and then \$2 million each year for maintenance. That is \$14 million over a three-year span. By investing in virtual machines, we can cut our 1,000 servers to 200 traditional physical servers, and then 80 virtual machines. This would leave us with a cost of \$4.8 million, including maintenance costs, over three years. By installing the virtual machines, we are left with a net profit of \$9.2 million.

Works Cited

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