Flash Research Paper 2

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At the start of this new hardware refresh, we should move 80% of our server workload onto virtual machines running on servers using VMware virtualization. Using the capability of virtualization to divide up server hardware, over a three-year period, we would see a net benefit of $9,200,000.

Virtualization technology takes the hardware available in a server rack and divides it up into smaller portions that can each be used to run a virtual machine. On each virtual machine we can run an OS and a specific program/process. This both reduces the space required to house our servers, but also is more efficient. One of the servers running VMware can run ten virtual machines. These virtual machines have the same capabilities as the physical servers we have been using up to this point. The cost to maintain each VMware server is much lower per virtual machine compared to a traditional server. Having these servers running VMware also cuts back on the number of physical servers we need on site by 720.

The three-year cost saving benefit of switching 80% of our server workload onto servers running VMware comes out to $14,000,000. The three-year cost of moving 80% of our server workload onto virtual machines on servers running VMware is $4,800,000. The net benefit of utilizing this virtualization technology is $9,200,000 over a three-year period.



**Works Cited**

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