

Edward Shen

Our company can save \$6,480,000 on hardware and software by utilizing virtualization to consolidate our server workloads under VMware alone. Virtualizing and consolidating servers reduce downtime, redundancy, energy cost, and personnel numbers. By investing in VMware our company will save \$1 million over three years.

Server virtualization consolidates multiple servers virtually into one physical host server. VMware's virtualization of our Data Centers would allow us to consolidate our servers and reduce the company's server counts. VMware's vSphere with Operations Managements would allow our company to manage the virtual machines from one central location and monitor the performance of each one. Virtualizing our data center allow us to use snapshots of our virtual machines to quickly get our server back up and running after errors to reduce downtime. Virtualization is also a cost-effective because it separates all the different servers from one gigantic server, which will reduce any data redundancy.

Virtualization consolidates servers which creates fewer physical host hardware servers. Implementing virtualization will allow us to save \$10.6 million on maintenance because of fewer hardware servers. With less hardware the data center will also use less energy which will reduces energy costs. By having fewer servers and being able to control and monitor these servers from one central location, our company will be able to cut down on personnel costs. Virtualizing and consolidating our Data center using VMware will allow the company to reduce our cost by an estimate of 40%.

Work Cited

"Server Virtualization." : *ENERGY STAR*. Energy Star, n.d. Web. 24 Feb. 2014.

"Server Consolidation." *Server Virtualization & Consolidation: VMware*. VMware, n.d. Web. 22 Feb. 2014.

Wallen, Jack. "10 Benefits of Virtualization in the Data Center." *TechRepublic*. Techrepublic, 10 Apr. 2013.

Web. 24 Feb. 2014.