Shuyue Ding

Virtualization and Cloud Computing

Our company could reduce the cost of our datacenter. The new technology is virtualization and cloud computing. If our company uses this technology, we can build multiple virtual machines as servers in one physical server. Our company can generate a $9,200,000 net benefit in three years if we invest in VMware.

The key benefit of virtualization is server consolidation. We can transfer 80% of our current physical servers to virtual machines. We can reduce the number of physical machine by consolidating 10 physical servers onto a single virtual machine server. Our company has 1000 physical servers currently, and we only need 280 servers if we use virtualization. For example, one IT professional employee can manage 10 servers on one physical server.

As a result of investing in virtualization, we will have a three-year net benefit of $9,200,000. The total cost to invest in virtualization is $4,800,000 over three years, which includes the cost of implementation and maintenance. The total benefit is $14,000,000 over three years as a result of reducing the cost of physical servers and their maintenance. Our company should invest in virtualization in order to consolidate our servers.

What is virtualization? - Definition from WhatIs.com. (n.d.). Retrieved February 27, 2017, from <http://searchservervirtualization.techtarget.com/definition/virtualization>

Top 5 benefits of server virtualization technology. (n.d.). Retrieved February 27, 2017, from <http://searchservervirtualization.techtarget.com/tip/Top-five-benefits-of-server-virtualization>

Marshall, D. (2011, November 02). Top 10 benefits of server virtualization. Retrieved February 27, 2017, from http://www.infoworld.com/article/2621446/server-virtualization/server-virtualization-top-10-benefits-of-server-virtualization.html

