Ari Abramson Flash Paper #2

We can net \$9.2 million in benefits over three years if we consolidate 80% of our physical servers to virtual machines (VMWare). This reduces the total number of servers we maintain by consolidating our data center resources.

The key capability of upgrading to VMWare is the ability to consolidate our servers. It will be easier and less expensive to manage a lower number of physical servers. We have the ability to transition 800 of our physical servers to 80 virtual machine servers, which will save us money on hardware acquisition and maintenance costs.

Consolidation ensures an efficient use of resources. In our hardware refresh cycle, implementing virtual machines will save us \$14 million dollars. It will cost us \$4.8 million to implement, and allow us to net \$9.2 million in benefits over 3 years.

		Year 1		Year 2		Year 3		Total	
Costs									
200 Traditional Physical Servers	\$	1,600,000	\$	-	\$	-	\$	1,600,000	
80 VMWare Servers (10:1 Consolidation)	\$	1,280,000	\$	-	\$	-	\$	1,280,000	
Maintenance: 200 Traditional Physical Servers	\$	400,000	\$	400,000	\$	400,000	\$	1,200,000	
Mainenance: 80 VMWare Servers	\$	240,000	\$	240,000	\$	240,000	\$	720,000	
Total Costs							\$	4,800,000	
Benefits									
Eliminate 1000 new traditional servers	\$	8,000,000	\$	-	\$	-	\$	8,000,000	
Eliminate maintenance for 1000 new traditional servers	\$	2,000,000	\$	2,000,000	\$	2,000,000	\$	6,000,000	
Total Benefits							\$	14,000,000	
3-Year Net Benefits							\$	9,200,000	

Resources:

Vanover, R. (2015, October 22). Physical Servers vs Virtual Machines. Retrieved October 11, 2016, from https://www.veeam.com/blog/why-virtual-machine-backups-different.html

Davis, D. (2013, March 28). Understanding the Difference Between Physical and Virtual Networking. Retrieved October 11, 2016, from http://www.windowsnetworking.com/articlestutorials/netgeneral/understanding-difference-between-physical-virtual-networking.html

Sebastian, S. (2016, May 24). Physical Vs Virtual server: Which one should you choose? Retrieved October 11, 2016, from https://bobcares.com/blog/virtualization-or-physical-server/