Virtualization

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Signature: Aaron D. George

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Abstract

We would be honored to propose the idea to the Seamus Corporation of our virtualization services for focusing on emerging technologies to increase business proficiency. We can start by installing all current operating computers with virtual machines (VM). This way we can have less maintenance to your systems while reducing cost. This will be a three phase implementation plan; Understanding the overall scale of the project and time needed to finish everything. Setting and installing all devices with the VM. Finally, checking if everything is fully functional and working. I presume the whole operation should take an approximation of a week to finish.

- Adding virtualization to Seamus will benefit the company financially since there is a substantial decrease in overhead cost and more network security.

- We suggest upgrading your systems with our virtualization services Bogle. This will increase business proficiency, and the whole procedure should take no longer than a week

- Our virtualization services will benefit Seamus Company greatly. VMs will give more flexibility at less cost, while also adding more security to your networks. Making severs more stable.

- The main goal here is ensuring the company can grow without spending more money on additional space. Keeping maintenance easier.

- Implementing the project will cost $12,330 for everything done. This may seem steep to some, but in the end, you are saving thousands of dollars on hardware and other necessities.

- We at Bogle are #4 in the nation for VM technologies and been in the industry for over 15 years. We rank number 1 in the state of Washington.

A Proposed Project for Seamus Company

D1. Proposed Solution

We noticed the Seamus Company is interested in using more emerging technologies. We at Bogle advise the Seamus Corporation to take advantage of our virtualization services for increase in work proficiency. Migrating your computers to our VM services will only benefit the company, with a stable virtual environment for safe network traffic, you can ensure a secure tunnel for information to pass through. We will ensure a fast and easy installation at a low price. We have some of the finest technicians available to get the work completed efficiently.

For the plan, First we will determine the intensity of the work and figure out the proper time allocated for the job. Then, setting up the process and installing the VM software on every computer in the company, Finally, we can do some hardware tests, making sure everything is fully functional and usable for daily business.work

D2. Related Works Review

In the first article I will like to touch on is Benefits of Virtualization. (2020). Which coincides

with a lot of the points I brought up about virtualization. Great scalability to the internal

infrastructure, reduces cost on equipment needed, and an overall major increase in work

proficiency. "All of these benefits point to the fact that virtualization presents a win-win situation

when it comes to helping companies maintain a competitive advantage." Benefits of

Virtualization. (2020). Virtualization is giving your company an advantage over your

competition .

The second article I will talk about (Pickett, 2019) mentions topics about the importance of

having virtualization on a server. "Companies realized they were wasting resources, and

virtualization technology was adopted by most as a way to consolidate their business' technical

operations. These days, server virtualization is more of a basic requirement than an advanced

concept." (Pickett, 2019), virtualization is becoming so important on today's server having a

VM is so crucial to a company's assets.

For the third article (Brown, 2019) emphasis on the benefits corporations gain from switching

over to virtualization systems. "Having one server capable of hosting multiple servers or one

desktop with the capability to run several different desktop instances means less up-front

purchasing costs. However, the cost savings aren't limited to hardware. Less hardware on your

network means less power consumption and less cooling costs. These equate into savings."

(Brown, 2019) For Seamus things are only going to go uphill from here on out and major

improvements will happen within the company with the new virtualization networks.

D3. Goals, Objectives, and Deliverables

Goal 1: The main goal of this project is improving the infrastructure of the company, while still

providing flexibility, increasing proficiency in the business, reducing overhead cost and

hardware cost. Also reducing workload of the servers making them easily manageable. These

key factors are the things that will allow Seamus to keep better uptimes as the company expands.

   A. **Objective 1:** Before implementing a virtualization server we need to understand the

         environment better to comprehend the scale of this project.

 Deliverables A: Meet the IT staff before proceeding, what kind of environment are we working

with and what procedures must be put in place first.

Deliverables B: Converse with IT about the size we are dealing with, how big is the network, and

figure out how much space we are working with.

   B. **Objective 2**: Figure out exactly the amount of resources needed allocated to the

         computer's network.

Deliverables A: Understand the layout of the building, how much are we dealing with.

Deliverables B: Design a map of hardware requirements what is needed to keep everything

functional 24/7

    C. **Objective 3**: Install and setup virtualization on all the hardware devices in the company

Deliverables A. Set a date and time to discuss when IT feels they are comfortable with the

installation process and if everything is okay

Deliverables B. Have different tests and simulations to see if the software is operating fine. If

any problems occur immediate fixes must be made

    D. **Objective 4**: Train others in the IT staff about maintaining the virtual environment and

        monitoring any issues.

Deliverables A. Have training sessions with members of the IT team, making them familiar with

the technology.

Deliverables B. Create virtualization simulations and scenarios where errors occur, being able to

deal with most issues that may happen in that environment.

D4. Projected Timeline

Description of Deliverable	Work Hours	Start Date	End Date
Determine Scale of project	12 Hours	11/12/20	11/13/20
Resources allocated to computer's network	6 Hours	11/13/20	11/14/20
Setup and Install Virtualization	3 Hours	11/14/20	11/16/20
Training staff	6 Hours	11/13/20	11/19/20

D5. Resources and Costs

Description	Cost	Total
Virtualization	$2,330	$2,330
Setup&Installation	$4,000	$4,000
Allocation	$2,000	$2,000
Training	$4,000	$4,000
Grand Total		$12,330

D6. Outcome

	Metrics	Effectiveness	Success
1.	Increase in Security	Number of repealed attacks this year vs last year	A range of 15-20% would be successful
2.	Increase in work proficiency	Task resolved quicker this year than last year	A range of 10-15% would be successful
3.	An increase in server uptime	More stable server uptime this year than last year	A range of 20-30% would be successful
4.	Less cost spent in hardware	Decrease cost of hardware this year than the last year	A range of 30-35% would be successful

We highly recommend that the people at Seamus Corporation take advantage of this opportunity to upgrade their computer infrastaure with the emerging technologies of virtualization. This will be a three phase implementation plan; Understanding the overall scale of the project and time needed to finish everything. Setting and installing all devices with the VM. Finally, checking if everything is fully functional and working. I presume the whole operation should take an approximation of a week to finish.

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Aaron D. George

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11/13/2020

Sabrina Robinson

Seamus Company

Head Manager Department

789 W Parker Street

Ashton, NY 11111

Dear Robinson,

We wanted to respond to Seamus Company's Request for Proposal in order to address the concerns for upgrading your platform to a more stable virtualization network for your equipment.

We at Bogle believe that this upgrade to your hardware will benefit Seamus and virtualization will only improve your proficiency further. Our plan will work out in 3 phases, one we discuss the upgrade needed, the setup and installation for the project, and maintenance for the VMs being used, incase of any long term problems that may occur.

The cost is estimated to be roughly $12,330 for everything completed, which we feel is a small price to pay for better performance, especially compared to our other competitors. This whole project should take no longer than a week. Starting on 11/12/20 to 11/19/20.

Once again we take pleasure in doing service with Seamus. Please feel free to contact us for any questions and concerns

 Sincerely,

Aaron D. George

CEO of Bogle Corporation

G. Sources

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Brown, S. (n.d.). What Are the Benefits of Virtualization? Retrieved November 13, 2020, from

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