Individual Self Reflection

Student’s Name

Institution

**Introduction**

The IT Capstone project is a critical project, which provide excellent experience and also offers skills in solving major IT related problems in an organization. It is important to point that major sections of the project have been completed and checked by the project manager. In order to complete the project, we worked as team to develop a working sheet and formula where each team member had a clear line of responsibility, which must be completed with a specific time. The technical team dealing with network setup working independently, with efficient coordination with other project members to ensure that the project is completed on time. Therefore, VM has been setup and completed analysis of the network system or infrastructure and upgrading has been completed, setting up of users’ interface has also been done, and installation of the Xenserver and XenDesktop has been done as well. However, therefore, implementation of a virtualization solution was the best concept, which would improve performance and increase accessibility of data. The implementation of the project requires technical knowledge and expertise. The project implementation gave an opportunity to work together with an enterprise in order to offer the company a solution to the problem through offering a problem solving strategies and techniques which can be used to implement a new system.

**Completed work**

During the implementation of virtualization solution to our customer, we went through every steps required for a project to be implemented efficiently to meet the goals and objectives set. The initiation was the first step of project, where stakeholders were met, goals and objectives were developed, and stakeholders were mobilized. The research to determine the problem, which an organization faced, was also done for efficiently to derive at the best solution. The completion of the project was achieved through various steps (Ojiako, 2012). The network structure was analyzed for its ability to convey high powered data with limited latency (Dalcher, 2012). The virtualized system was then created at a remote location, transfer of instantiated was done and then VM was started on XenServer host.

The implementation of hardware system required for efficient installation of software was first completed. The network system was upgraded so that it facilitate a speed of 4Mbs so that to improve the connectivity. The upgrading of the network system was completed and testing hence it operational well. A new server has been installed and it is working efficient to support the system (Ojiako, 2012). The current hardware servers have aged over the time, cost of replacements will be very much expensive, and they have limited space. Therefore, the installed server is one of the best latest servers in the market. It provides high speed and space to customers.

The XenDesktop application required addition of some extra features reveled at during the testing method. This indicates that the installation of XenDestop has been completed and it is working efficiently without a lot of difficulties. The XenServer has also been developed based on the description and proposal shared with the team so that it can create better working platforms (Soderlund, 2008). It is also important to point that the implementation of Citrix XenDesktops. The configuration of the server has been completed and the server is operating efficiently. However, the following configurations were done in the server for it to operate and optician level. VM memory and CPU configuration, Virtual storage configuration, VM networking configuration, Virtual GPU configuration were completed in the server and each configured app and system work well. The configurations were done in the server (new server) and it is operating without any itches. For security of the system the firewall was also installed and configured. The installation and configuration of firewall system has also been completed. The firewall was installed as a gateway to filter all information entering the system to ensure that allowed IP addresses are the communication, which can be established between the server and other end users.

The project has been tested to establish how it operates and it has met its goal. The test result indicates that there are some errors from the system. The connection between end users is not effective and it indicates some errors. These errors are triggered anytime a communication is established. However, the errors could be a result of system configuration or poor connection due to fragmented network.

**Problems faced**

The project could not be completed without experiencing some problems. Implementation of virtualization is done using different software, which must be able to establish communication. However, some of the problems registered are related to errors from connectivity. The connectivity does not work well and it trigger error message from each devices. Therefore, the connection between end devices is not stable has projected and therefore, this is one of the major problem being faced with the implementation of the project. Above all, other problems faced during the project implementation are lack of proper network infrastructure. This cannot allow efficient flow of data and it can be the main cause of error being received at both ends of the devices.

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