

## Capstone Project Proposal

Today I am going to present the proposal of my project, a manual of the migration of data from local servers to a cloud system. Now you may ask what is the cloud; you may think it is a reference to the clouds that we see every day in the sky. However, in the computer technology world, a cloud is actually a virtual space that is allocated for services and applications to run. Cloud technology is a fairly new technology, but it is booming very fast in the business world.

*Definition of Cloud: "A communications network. The word "cloud" often refers to the Internet, and more precisely to some datacenter full of servers that is connected to the Internet. However, the term "cloud computing" refers to the software and services that have enabled the Internet cloud to become so prominent in everyday life. "(PC Magazine)*

### History

The idea of the cloud has been around for many years, but since there were not many accessories and technologies available for its use, it was never truly utilized before. Though today it is widely in use and is easily accessible for everyone from the corporate level to private businesses.

### Purpose

The purpose for cloud based system is to ensure that all the data is available and accessible from everywhere around the globe. The cloud not only gives an availability of data and services, but promises cutting the cost of storage and use of applications. The cloud works principally with group of servers that are interchangeably connected to each other and are accessible from any access point. To have the many servers needed, you need to have a large place to accommodate all the servers and related hardware. For this reason companies such as Amazon and Google have their own cloud systems, which other companies can then utilize.

Servers are the main source to build the cloud system. Servers provide access to the applications and resources at a centralized location. Without servers, the internet would not be accessible the way it is today. Connecting all of these servers in one logical place and giving them access to the internet, creates a cloud.

The cloud gives companies a way to choose what services that are needed for their business. For example if a small dollar store or private deli, wants to run some application, they do not need many copies of it, and probably don't need access to it 24/7. In this case it may make more sense for the business to simply run the application on a local computer. However, an enterprise business may need more services, applications, constant uptime and additional security measures for their applications. Such a business then will have the option of either hiring all the people and buying all of the hardware needed, or simply renting cloud storage from another company. The second option may prove to be both cheaper and less of a hassle, making the cloud a much better option.

### Thesis

For my project I am going to create a manual describing the migration of data from a local server to the cloud. This process will inevitably lead me to encounter many technical issues, such as connectivity, speed, and so on. The reason I am doing this is to argue that having your data on the cloud is much more reliable and secure than having it on personal servers. Furthermore, I believe in the coming future the ease of use for a cloud will far outweigh the costs, causing even small businesses to use it. For this reason I believe we will soon see an explosion in the amount of people wanting to configure their own "cloud". My manual will help these people and will make the migration to the cloud a simple process.

Timeline: Throughout the semester.

September 19 – 30: Find the study material

October – Research more about the topic, and work on paper

November – Prepare the final project

December – Have it ready or complete the project

#### Mentors

Dr.Bicak – cannot do it because he is already have other people

Dr.Murphy – Waiting for her response, still pending