Abstract - English version

Every company wants an IT environment that is secure and ready for the future. But there are heavy costs for realizing this. There is no single right way to do something, everything has its pros and cons when it comes to IT. That is why a good analysis is necessary to know what the next step is.

A step towards the future could be to use Cloud computing. The concept has been around for a while, but now companies are really starting to commit to it. More and more small businesses are turning to the cloud to take advantage of its benefits such as scalability and accessibility.

Another important concept is data storage of applications. Apps should always have the highest possible uptime so that they are constantly available. But if something goes wrong with the storage then it can take a long time to get the application back to work. A well-known way to implement fault tolerance of storage is with a vSAN. This is a virtual network of storage and it ensures that your storage is almost always available.

To create a plan for a company's IT environment, all applications need to be looked at. A decision must be made for each application. Will this application move to the cloud or should it remain local on a vSAN.

In this thesis, synchronization is provided from a local environment to the cloud. A price analysis is done on migrating apps such as Confluence, Jira and email to the cloud.

Different types of vSAN are discussed and Starwind vSAN is tested. These test result serves as a baseline to compare other setups.