**What is cloud computing?**

1. Do we need to consider it for future industry?

Before cloud computing appeared to public, many people had uneasy way to read their documents. It was moved to one PC to another by CD, usb, etc. But after cloud computing came out people can now easily write or look their documents not just on their own laptop, but mobile phones, and PCs. This is one of services in cloud computing and there are more works we can do with it. Cloud computing is like ‘borrowing’ another PC that is connected to internet. Handling a process in one device may need more time to be done. But what if other device is free and we can connect into it? We can deal this process with another computer too, so we can save time and increase utilization rate.

This is important for future industry because we now have a lot of things to handle and right now one hardware is not fast as we want and we do not want to waste the useful resources(not used devices). So using cloud computing, we can do many processes as fast as we can and develop future industry more easy way.

1. Is there any benefit to work with mobile cloud computing?

Mobile devices do not have much space besides PC or laptop. But they have high network connection and this helps to work with mobile cloud computing. Mobile cloud services stores all the data out of the device, at the cloud, so it does not eat much of data storage on mobile devices. And at mobile cloud computing, process can be handled by other internet connected devices or programed software at cloud, so mobile itself does not deal with the work. So this device is free to take care of work that can’t be worked in mobile device itself. These features can make all kinds of mobile devices to do like data sharing and multi-tasking.

For example, in crowd computing, if there is a natural disaster and people cannot access to internet right away, they can just connect each on local network and get other people information easily(this needs some app for data sharing but that total data is not in mobile device, but in cloud).

1. Give your comprehensive analysis!

Industry is developing faster and faster and it is requesting more and more fast processing system. We don’t want to waste our existing resources and we knew that currently not used devices can be used to help the other process to work fast. One of the world’s biggest cloud computing service, Amazon AWS, showed us enough possibilities processing the work. So when this service gets more developed in the future, this will give us power to get what we want from industry.

**Graph Database almost dominates in many sectors of web and android applications.**

1. Who need to use Graph database?

People who need to have graph database want to know the relations between entities in the database. Each entity is not valuable than the relation between them and the graph database will be more useful if it visualize it.

For example, in chemistry, in these days scientists found or made many chemicals. These chemicals each do not exist alone but it changes other substances or other chemicals or itself as time goes by. In some cases it can result just changing color or ruin one’s peculiarity, but it can cause severe situation like explosion. The effected one effect another one, each chemical’s relations are very important. So if we use the graph database it will give the relations between chemicals and people who use them can be more safe and comfortable.

1. Which Graph Database suits the best for e-business?

When managing the e-business, data is generated and each data’s relation to others is so important to guide the business. Graph database is essential to e-business, and workers have to choose best graph database that they will use in their business. I found many kinds of graph databases and I think, Neo4j suits the best for e-business.

There are many graph databases but I chose this database because of these reasons. First, Neo4j supports a lot of languages including Java, Python, Ruby, JavaScript etc. When business becomes bigger, a lot of computer engineers join to support in the online and they don’t use only one language. Different types of languages have different characteristics and engineers consider this and select most suitable language they can use. Neo4j supports many widely-used languages so engineers can comfortably select most feasible language they will use.

Secondly, business gets bigger, the data gets huge. Showing relation of this data can be real slow if the data gets bigger and bigger. This can be solved by making the good code, but if the graph database works slow, it the result will show up slow anyway. So we have to use the graph database what is fast itself and this is Neo4j. Neo4j’s nodes and edges’ attribution improve the speed of retrieval for the data directly related to a given node.

1. Give your comprehensive analysis!

Graph database are gaining more power nowadays. Many companies, governments and even individuals use big data. Big data is not just a mass information, it means many kinds of data that information can be. One kind of data influence one other and this can be shown by graph database. This is very useful when establishing strategy or predicting danger in the future. Many companies will use the graph database which match with their taste. They will ask more and more relations they want to know and database need to satisfy what the users want. So in the future, the better relation ‘tools’ the graph database give, many will use it usefully.

[References]

A Survey of Mobile Cloud Computing Applications: Perspectives and Challenges

A Comparison of Current Graph Database Models