

Cloud Migration

Nowadays, cloud computing is taking advantage over traditional computing, and it is not for free, there is some advantages on Cloud computing like the pay as you go method. Its one of the most important things on make a good migration because of the business economy.

Besides financial costs, to make a successful migration, there are some points to highlight, like availability, security, and adaptability.

- Availability: in this aspect, we must be sure that the business will continue working during and next of migration, so its recommendable to make a migration strategy, where all web pages, data bases, and computing resources are available for working, a good strategy is to make migration by stages.
- Security: I think it is the most important aspect on migration, and be calm of this aspect, because cloud has a lot of security tools for every minimum aspect on computing.
 - First than all, signing into the resources on the cloud must be well managed, taking in account that will be many people (employees, managers, CEO, etc.) needing to access some cloud resources.
 - Availability to these resources must be guaranteed but being sure of these users will access just with the minimum permissions and resources needed.
 - By another side, actually a business is divided on departments and each department has a manager, supervisor and more control charges, on cloud migration it's important to maintain this organization and guarantee more security for those charges with more responsibility and knowing of business operation, those charges will have to use more security resources like multifactor-authentication, and permissions managing over the department it has in charge.
 - Integrity aspect is important too, and it could be guaranteed by taking the minimum permissions to modify files on few people.
 - Its important to clarify a responsibility between the cloud computing provider and the business, for example, cloud computing guarantee availability on resources, and confidentiality over data, but, like in traditional business architecture, employees and people who have access to some sensible data will have to sign a confidentiality contract, in cloud computing case, people who has direct access to sensible databases or high administrator permissions should have a responsibility contract. Regarding confidentiality over external parties, there are some security tools on the cloud to minimize it like implementing a VPC just for business instances, and subnets for each department mentioned before.
 - Some important things like availability, confidentiality and integrity were covered over this security point, and taking in account that cloud computing will not guarantee all security requirements if resources are bad used.
- Adaptability: Cloud migration brings advantages, but it's important that all employees and people involved on business be comfortable, and learn rapidly about how to use the cloud resources, accounts, multifactor-authenticators and more.

- Its important to train employees on basic cloud solutions and make much cybersecurity seminars and talks.