

Cloud Concepts pt1

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Whatr is the cloud?

Onpremised infomation system architecture

- Workload
- Services
- Virtual machines
- Virtualizacion
- Physical infrestructure
- Physical facility

When you start over this blocks , happend the following

Physical facility - you need cost of space , physical secure, personnel

Physical infrestructure - it needs the power , network, rack and storage for the virtual machines

Virtualization - in needs a platform, maintenance and licensing

Our Architecture vs Cloud Architecture

Our Architecture	Cloud Architecture
<ul style="list-style-type: none">• Workload• Service• Virtual machine• Virtualization• Physical infrastructure• Physical facility	<ul style="list-style-type: none">• Workload• Services• Virtual machine• Virtualization• Physical infrastructure• Physical facility

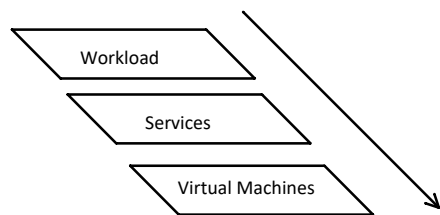
The easy way to understand the cloud, its thinking that the cloud, its only a personal computer (based on architecture).

The principal diferences in this structure, its that you are not responsable for this 3 layers: Physical facility , Physical infrastructure and Virtualization; Thats Its because the cloud services gives to you.

You can take it like another layer, whose array this 3 layers only in one : this new layer have the name of managment plane.

Types of Cloud Services

At this moment we only considerate 3 layers essencially:

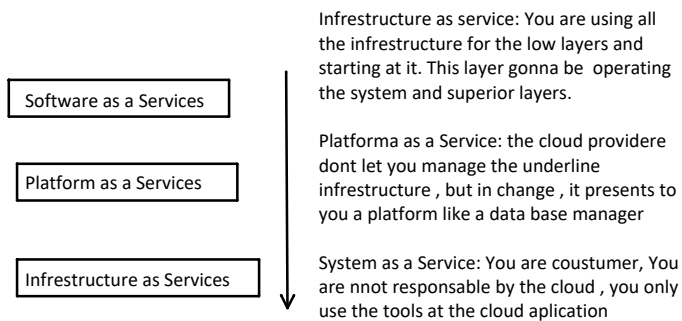


The virtual machines layer is the layer for a operative system.

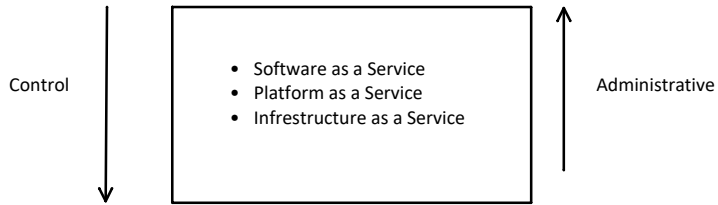
The services who could be the platform , the web services or the data base server.

The workload who could be your code on the code for the anyone else.

We can see this structure transform to this new structure considering the cloud:



▼ use the tools at the cloud application



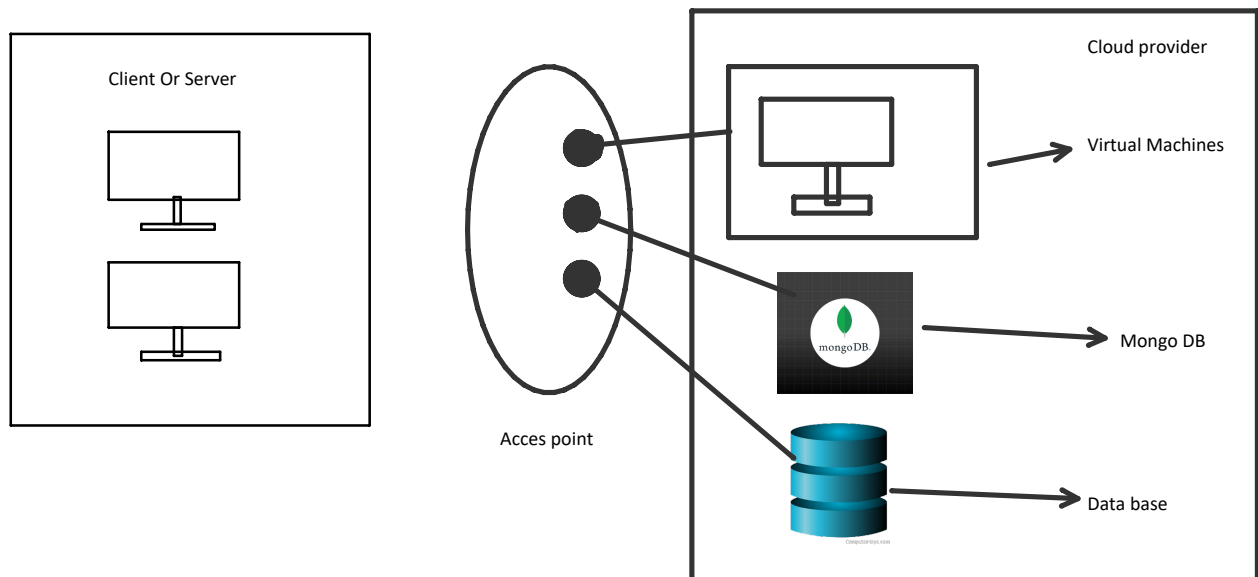
We talking about control and administrative, to give a reason to explain why you are losing or winning power at this two controls. For example:

You have more control if you are at the layer of administrative as a service, but, you have less administrative capacity at this layer.

You have more administrative capacity when you are at the software than a service, but you have less control at this layer.

Accessing Cloud Services

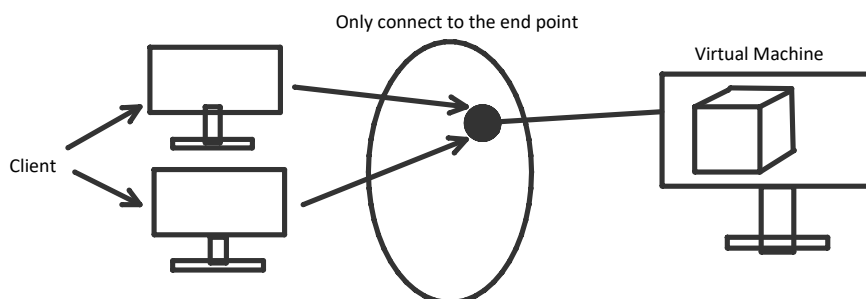
We have cloud provider in some server or client that need to get over the functionality, it could be a platform as a service, like cosmoDB or a database.



We can get access by different ways:

In first way, All the services or platforms and your virtual machines, who conforms a part of your infrastructure as a services have the ability to have a public end point, that ist on internet.

Essentially, if i got a virtual machine who haves this functionally, i only need to connect to this end point to set up the cloud provider i wanna use.

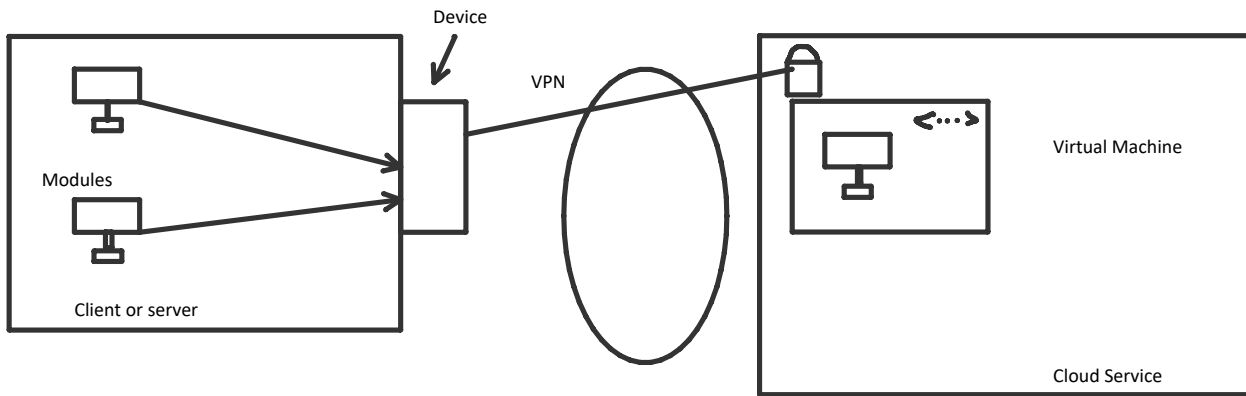


To get access and set up the function.

Other way to don this connection to the cloud services is the followings two options:

Set up a gateway

With one gate way, I have the ability to set up my own device over the side of client and over on this side going to the cloud and connect up to the gateway and then my virtual machine going to the local box.



Pasing for the internet , to this gate way .
We give the name of VPN gateway.

Private network connection.

Between my own enviornment and my Azure enviornment the difference in this , is im not goint to pass over the internet
(very familiar patron liker a WAN)

