Cloud computing : traffic, topology and network virtualization

Johnny Nguyen[1]

***Abstract*— This electronic document permits me to synthesis the second course of virtual cloud computing.**

I. Outline

During this course, we will focus on applications in the cloud and the usage of AWS.

II. Which application in the cloud ?

There was a few application in the cloud :

- Legacy application (web server in the cloud),
- Big data applications (Google Web search engine, Spark, big data service from a cloud provider),

III. IBM: a take on virtualization at large scale

IBM was known as the original virtualization company. Vocabulary :

- A host is a box,
- A virtual machine is a VM
- Migration less than 15 minutes was called live otherwise cold,
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IV. ?aaS

A lot of service exists :

- Service as a Service (SaaS) : managed by vendor (gmail(api REST), github),
- Platform as a service (PaaS) : only application is managed by usheroku (command-line tool)
- Infrastructure as a service (IaaS) : infrastructure managed by vendor (choose storage and OS),

V. CONCLUSIONS

When building fault tolerant services, you need to be pessimic.

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References

[1] http://www.i3s.unice.fr/ urvoy/

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