

Cloud computing



Plan

- History
- Cloud Concepts
- Current Solutions
- Pros and Cons

Definition

“Cloud computing is a concept used to describe a variety of computing concepts that involve a large number of computers connected through a real-time communication network such as the Internet. [...]”

from Wikipedia.org

History

1950 :



History

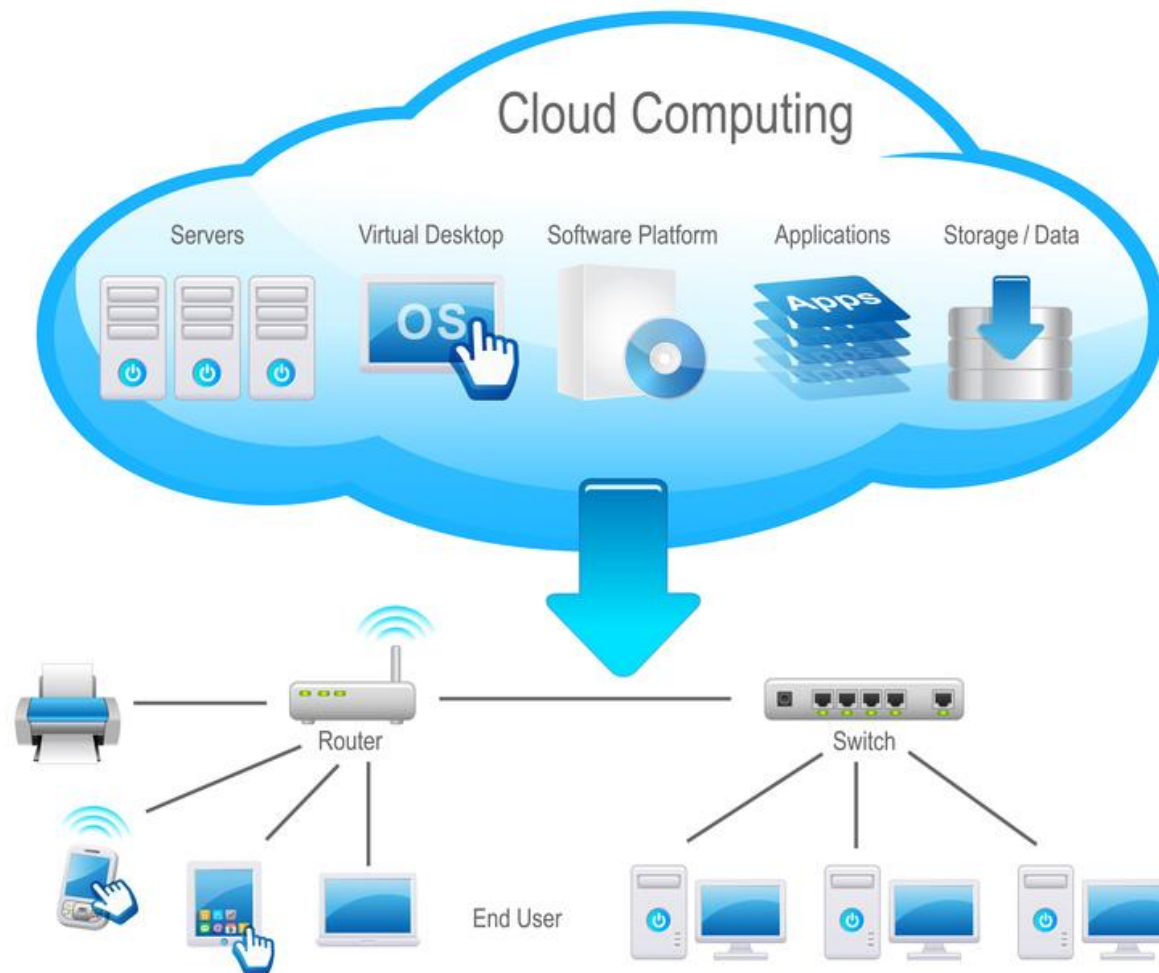
2000 :



Cloud Concepts

1. The use of cloud computing
2. Cloud technologies
3. Cloud services
4. Cloud accessibility

The Use of Cloud Computing



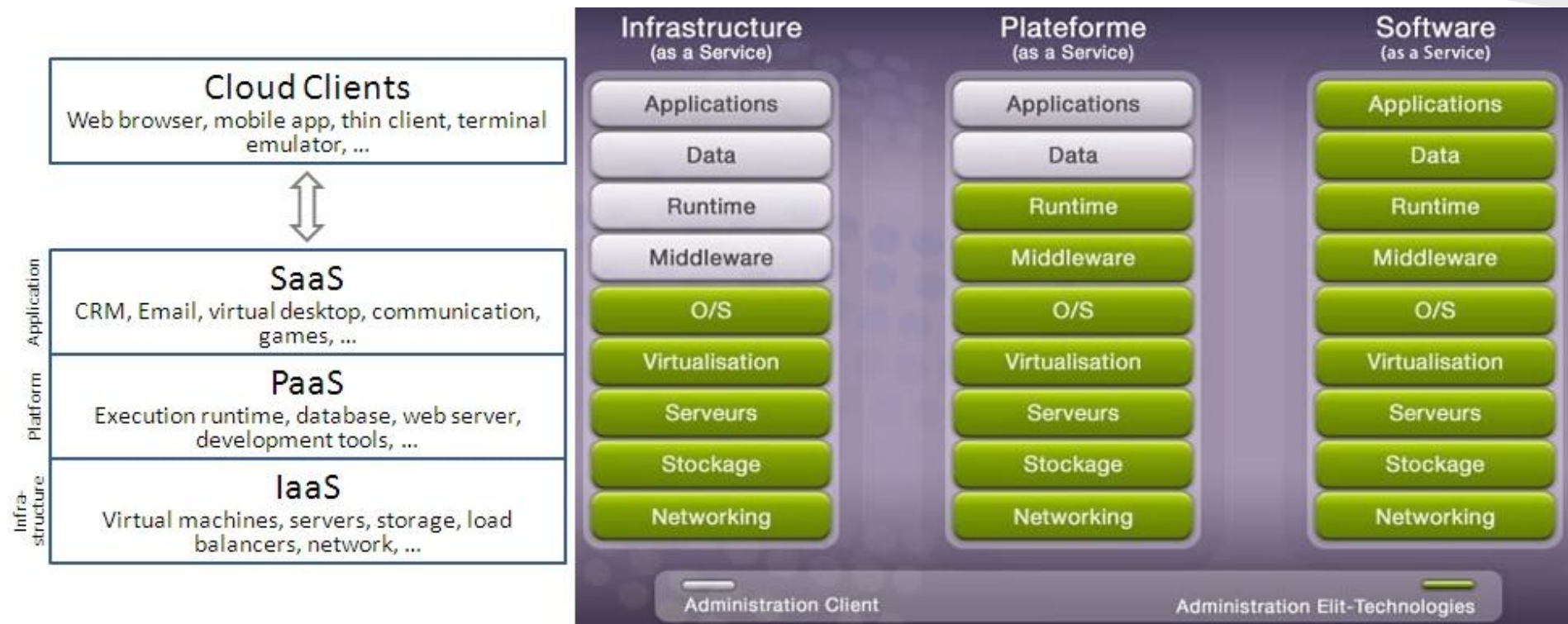
Cloud Technologies



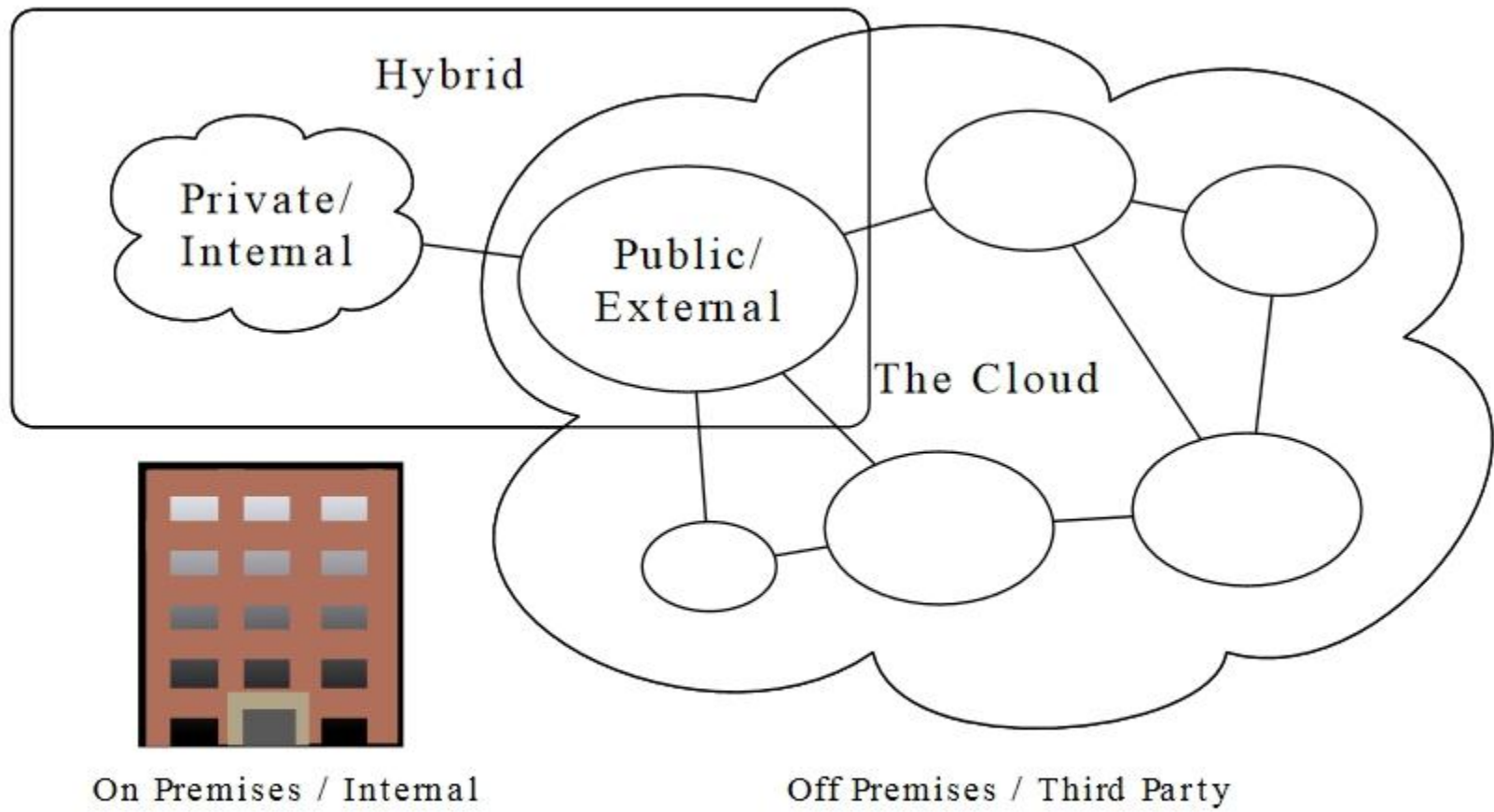
- Giant data centers
- Grid computing
- InterCloud



Cloud Services

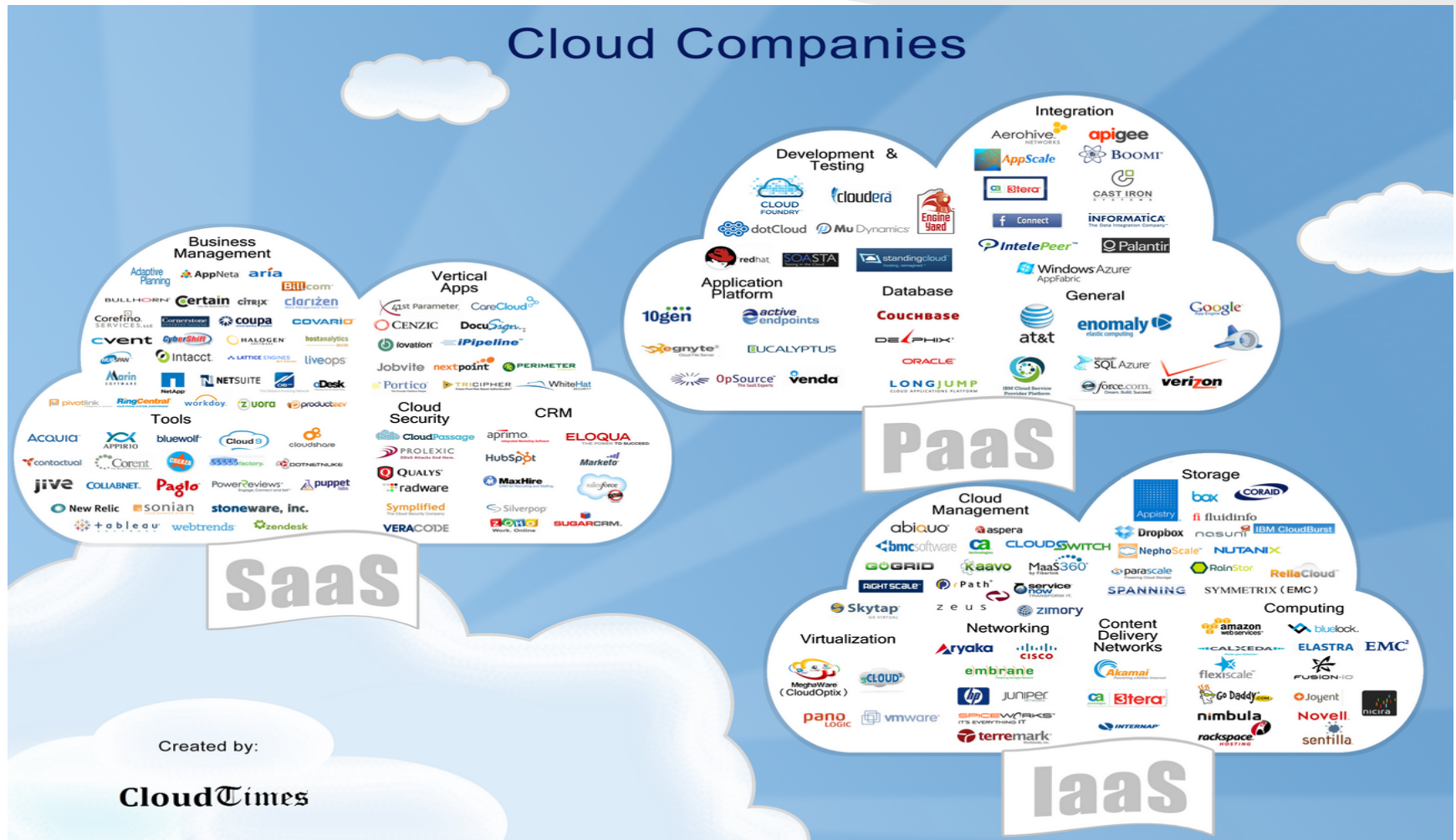


Cloud Accessibility



Cloud Computing Types

Current Solutions



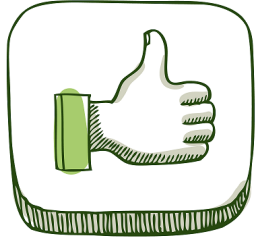
NVIDIA (Cloud Gaming)



NVIDIA



Pros and cons



1. Powerful
2. Provide easy access
3. Easy to deploy
4. Freedom
5. Cost



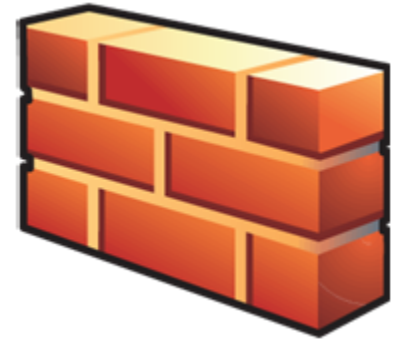
1. Security
2. Control
3. Reliability
4. Privacy/Confidentiality

How to secure the cloud



Deterrent controls

Preventive controls



Corrective controls

Detective controls



Legislation

Who is responsible for the data ?



Conclusion



Questions

In which decade was the concept of cloud computing invented?

A - 50's

B - 60's

C - 70's

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Which cloud service provides operating systems and databases?

A - IaaS

B - PaaS

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Questions

What is the name of multiple clouds with different accessibility bound together?

A - Inter Cloud

B - Mixed Cloud

C - Hybrid Cloud

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Questions

Which one is an advantage of cloud computing ?

A - Security

B - Cost

C - Privacy

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Questions

Which one of these security controls do NOT reduce the actual vulnerability of cloud computing ?

A - Corrective control

B - Preventive control

C - Deterrent control

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Who is usually responsible for data hosted on clouds ?

A - The customer

B - The cloud provider

C - The government

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Activities

Link each service with the correct layer:

IaaS ●

PaaS ●

SaaS ●

● Database

● VPN

● Virtual Machine

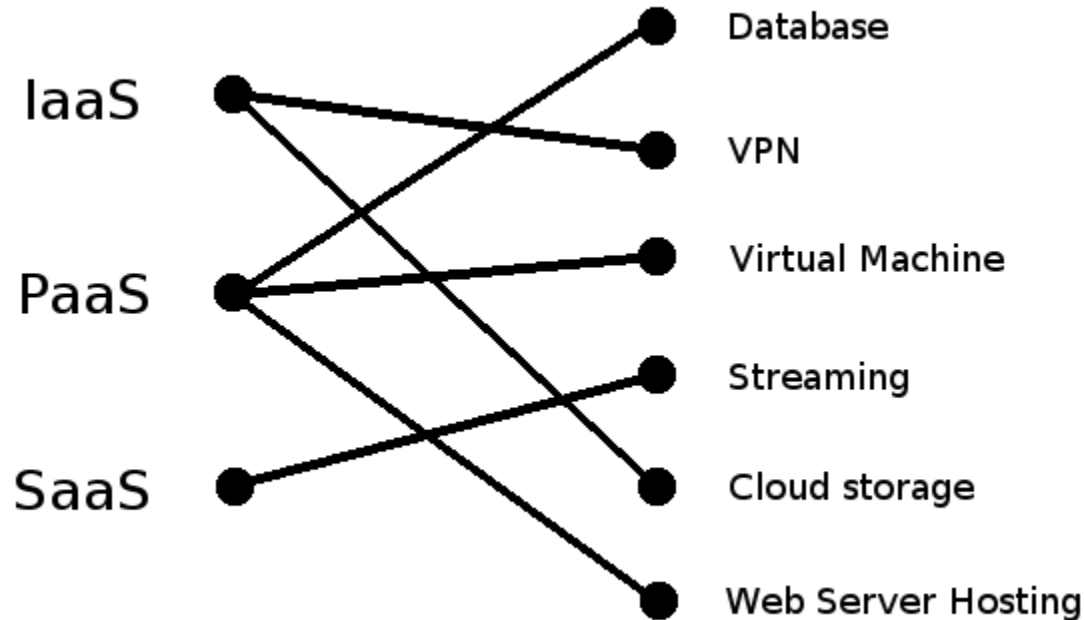
● Streaming

● Cloud storage

● Web Server Hosting

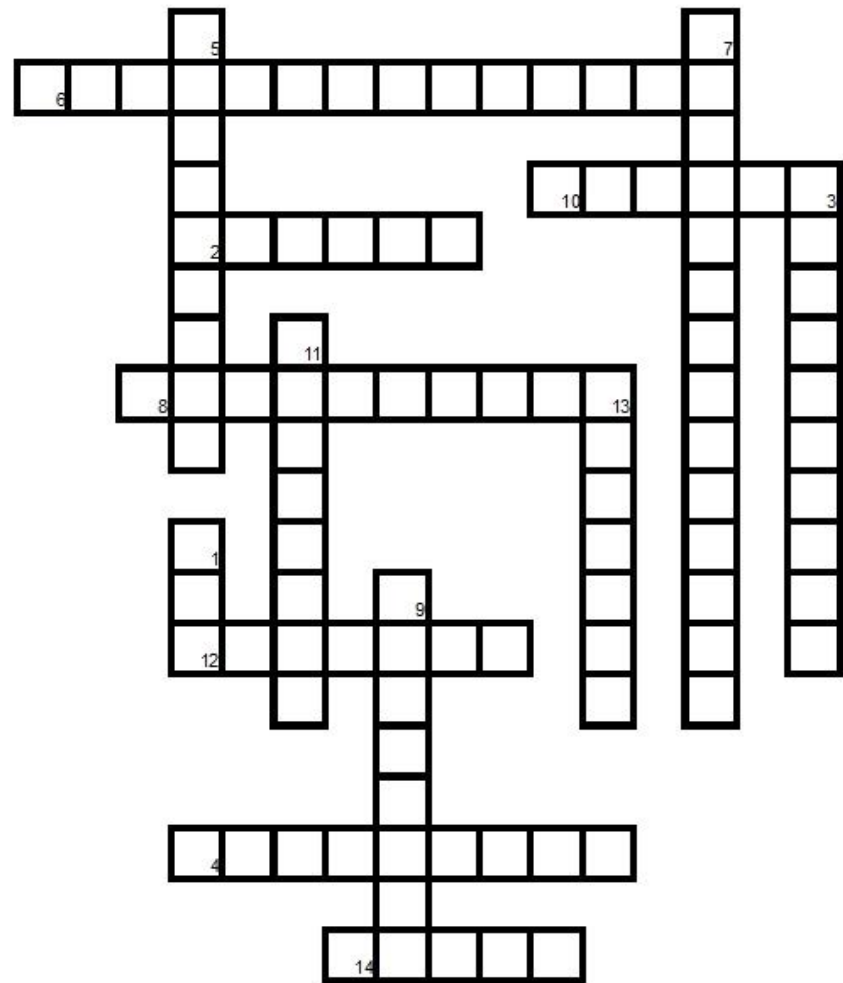
Activities

Link each service with the correct layer:



Activities

Complete the crossword :



Vertical :

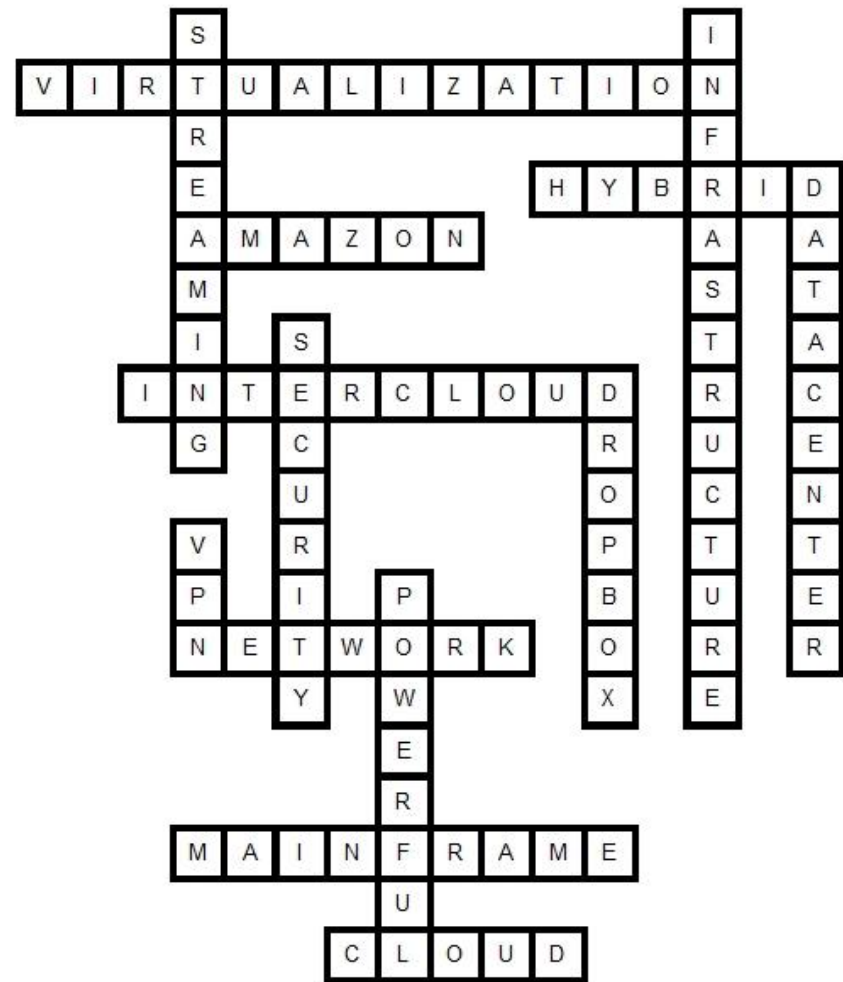
1. virtual private network
3. where cloud hardware is
5. VOD system
7. lowest level of cloud services
9. cloud advantage
11. cloud disadvantage
13. popular cloud storage

Horizontal :

2. first cloud provider
4. first large-scale computer for clouds
6. cloud partitioning process
8. cloud of clouds
10. cloud with different accessibility levels
12. cloud infrastructure
14. fluffy thing in the sky

Activities

Complete the crossword :



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