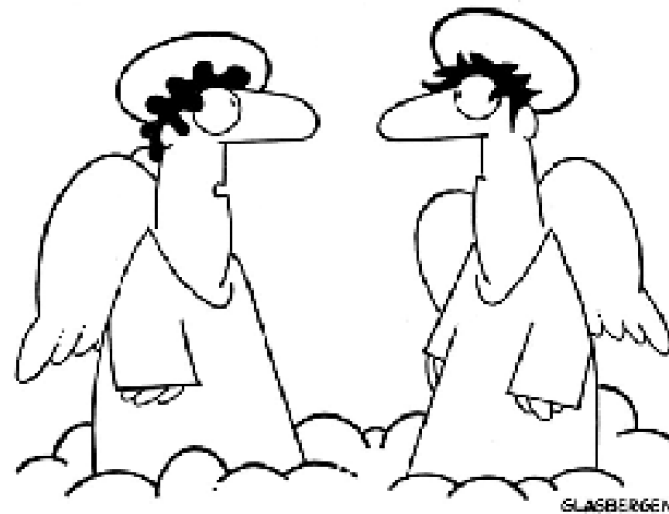


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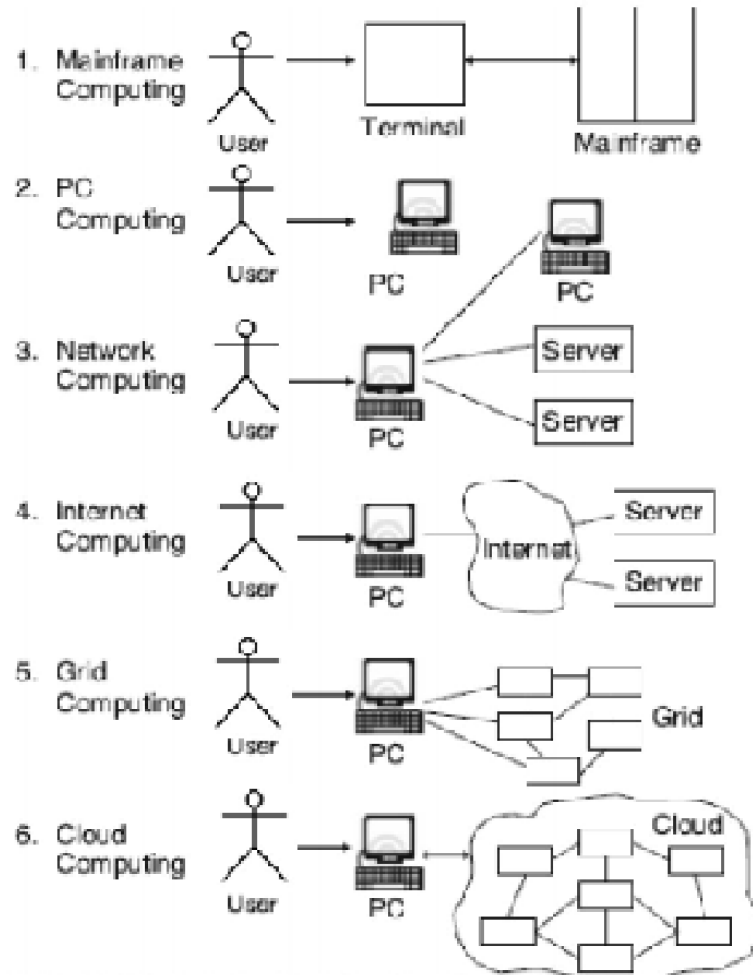
From Here we see all users data

Sisteme Distribuite

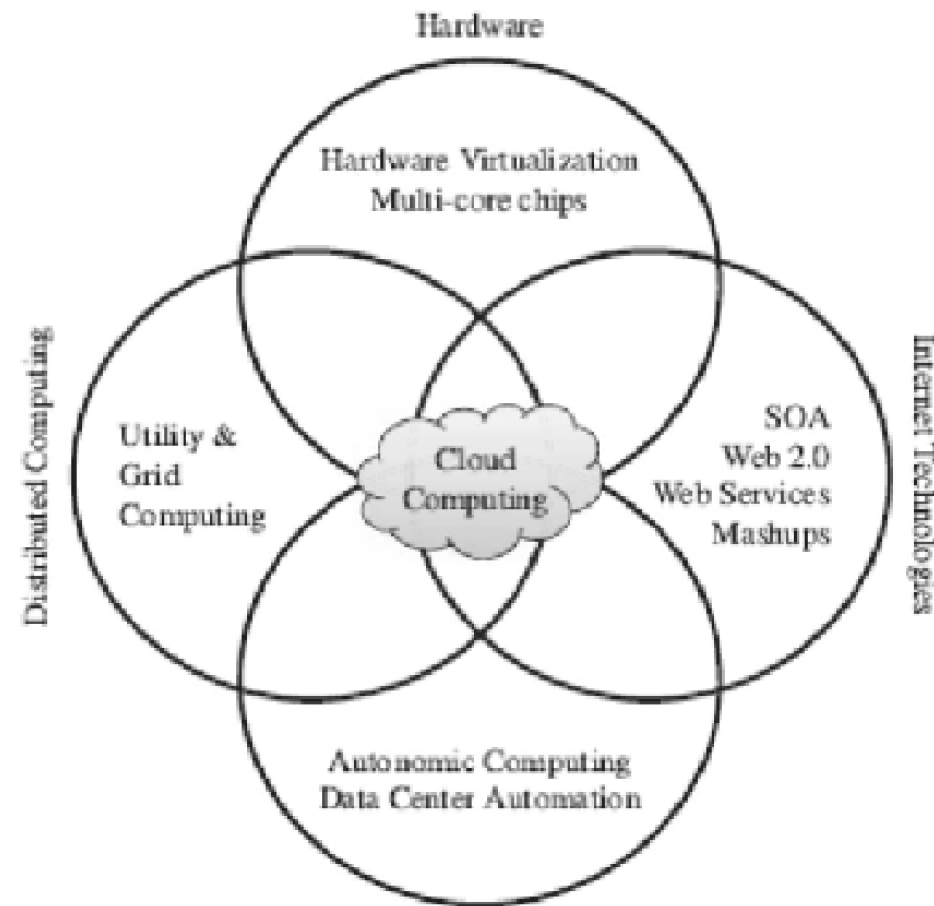
Mihai Zaharia

Curs 5

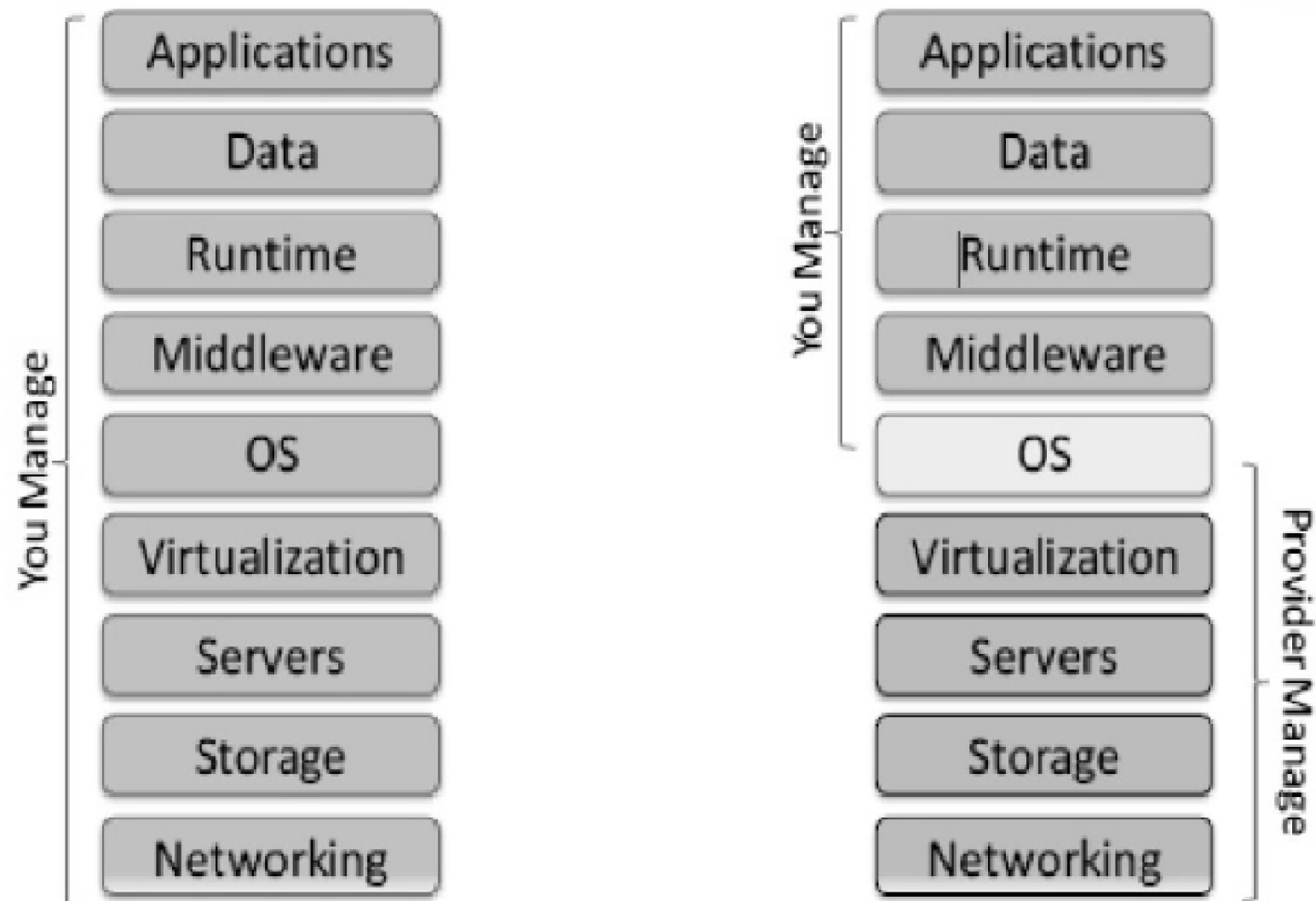
Scurtă analiză a evoluției structurilor de calcul



Unde se află de fapt norul ?



IaaS - Infrastructure as a Service



Modelul Traditional (*on-premise*) versus IaaS

Ce este norul?

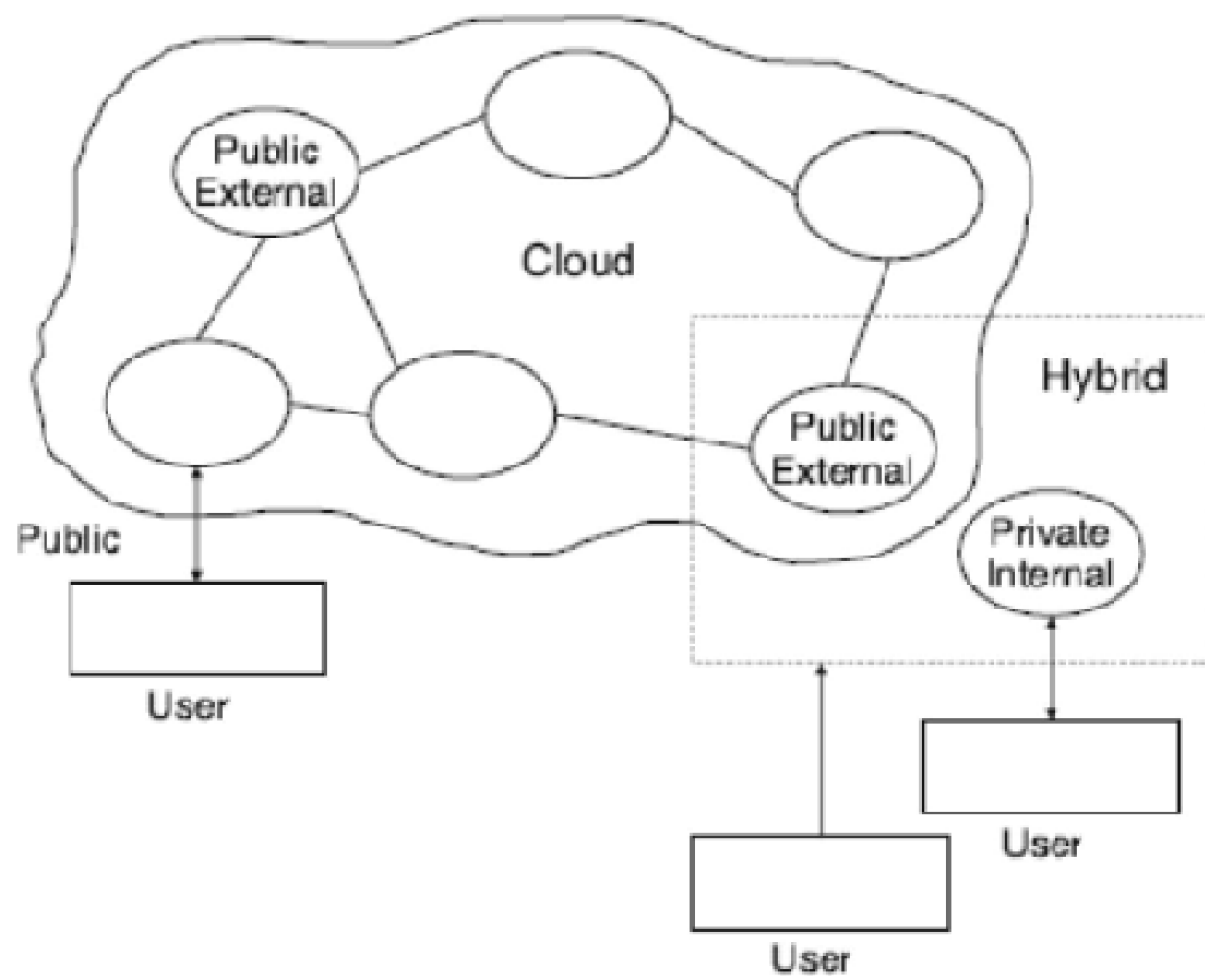
- **Definiția NIST**

- Cloud computing este un model de plata functie de utilizare care permite accesul, pe baza de retea, la cerere, convenabil, disponibil, la o grupare de resurse de calcul configurabile (ex., retele, servere, stocare, aplicatii).
- Aceste servicii care pot fi oferite rapid si cu un effort de administrare minimal sau cu interactiune minimala cu furnizorul de serviciu.

Caracteristicile de baza

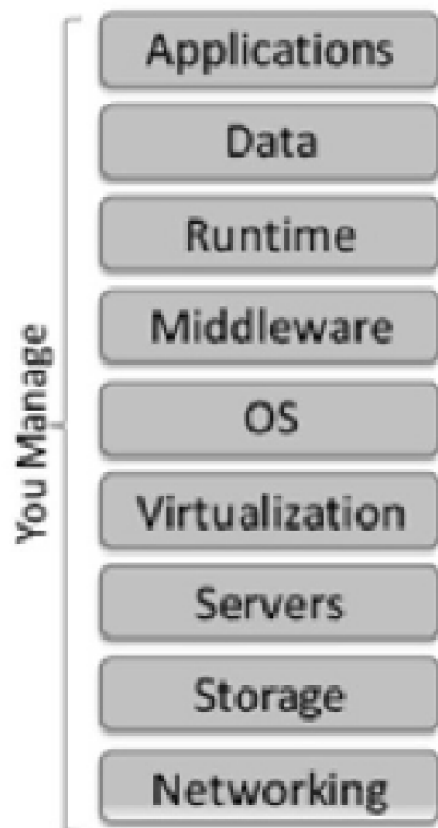
- Auto-service la cerere
- Acces de oriunde la retea
- Grupare a resurselor independente de locatie.
- Plata dupa cat consumi

Tipuri de Nori

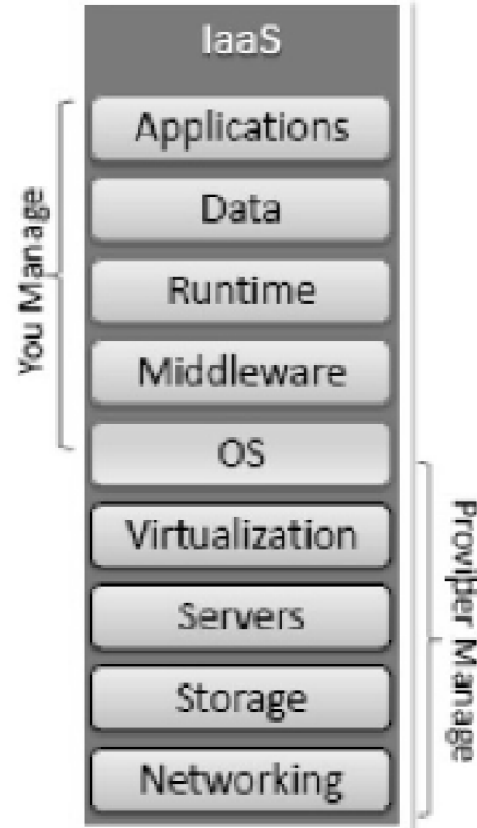


Platform as a Service (PaaS)

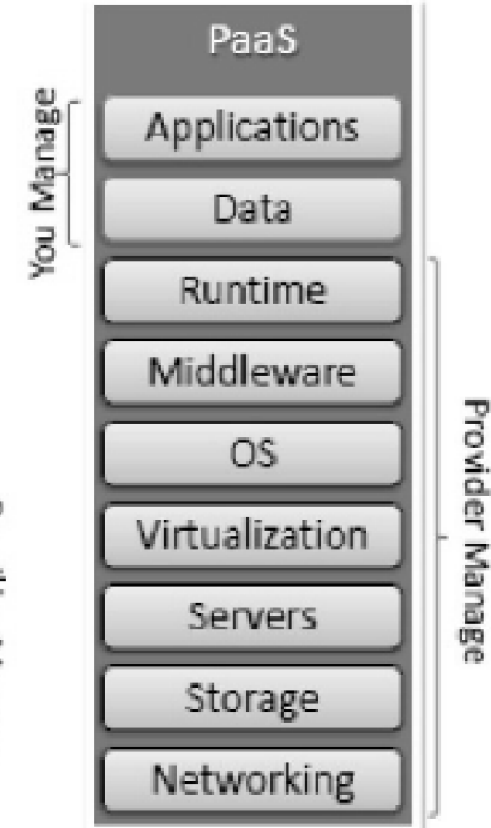
Modelul Traditional /On-premise



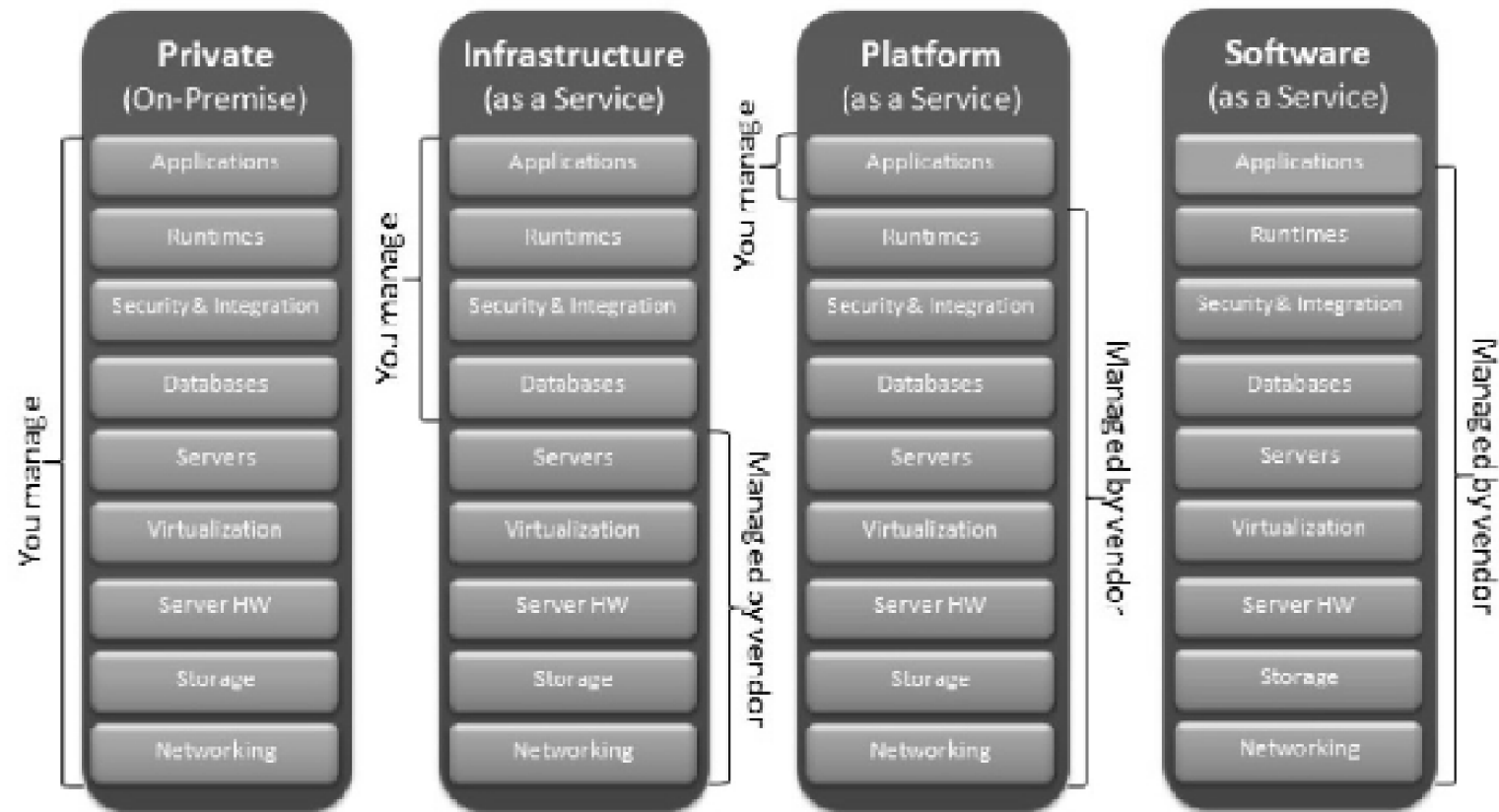
IaaS



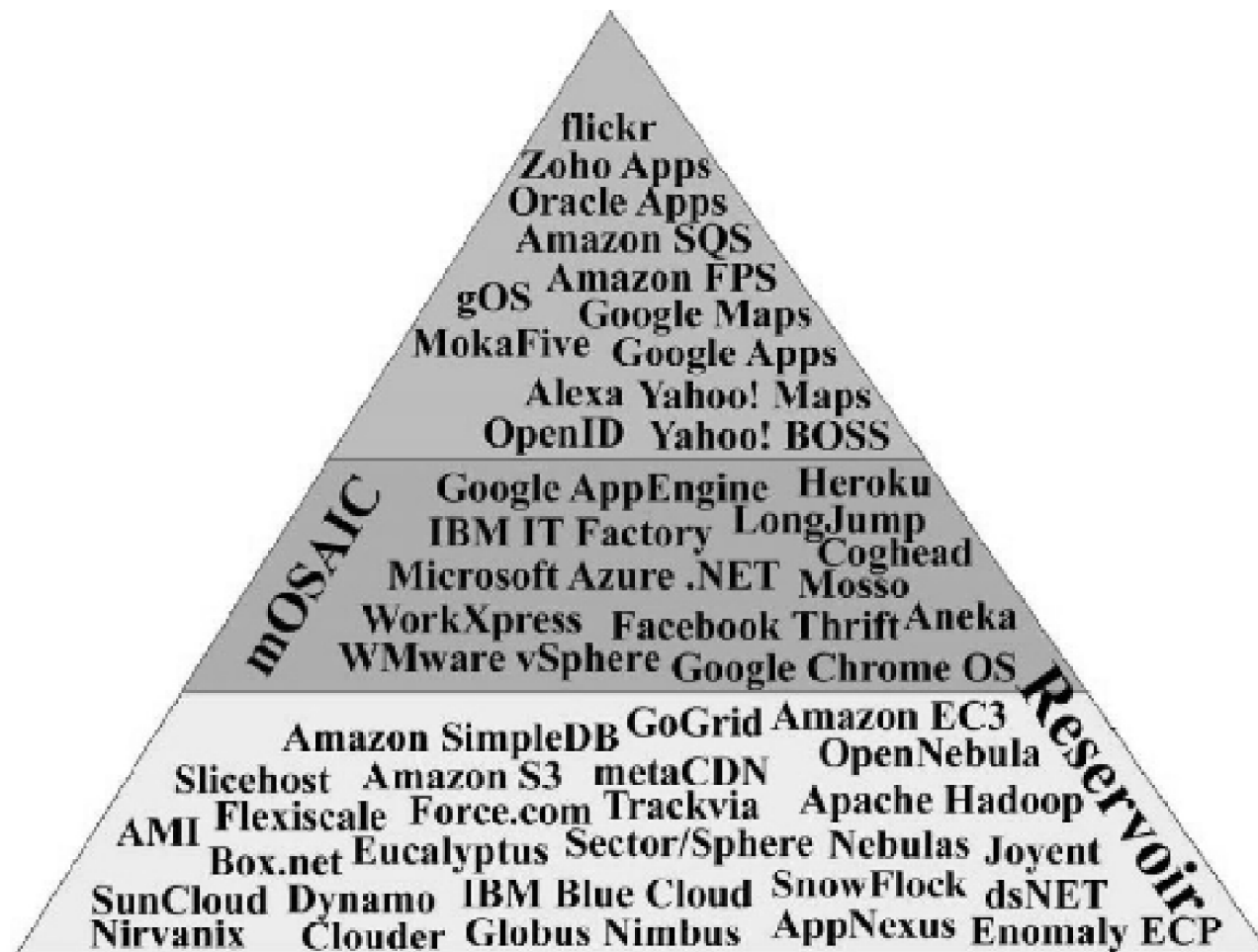
PaaS



Furnizori de servicii Cloud



Piramida Norului



FaaS

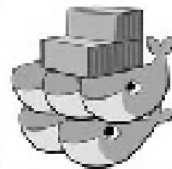
Functions as a Service

API Gateway

Function Watchdog



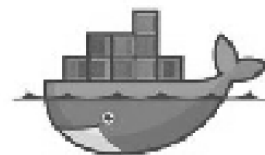
Prometheus



Swarm



Kubernetes



docker

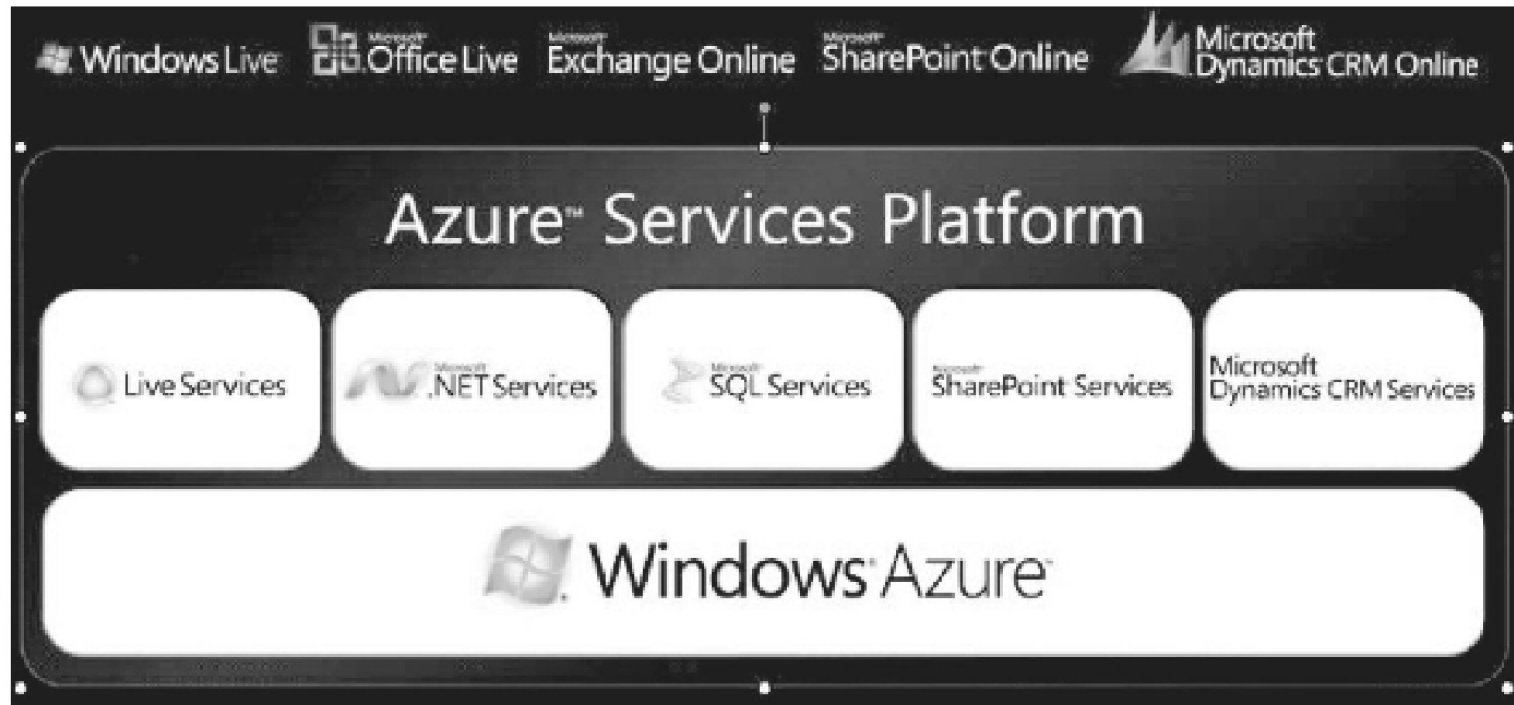
Orice ca serviciu (XaaS)

- Storage as a Service
- Database as a Service
- Communication as a Service
- Network as a Service
- Monitoring as a Service
- Testing as a Service
- HPC as a Service
- Human as a Service
- Process as a Service
- Information as a Service
- Identity as a Service
- Application as a Service
- Integration as a Service
- Governance as a Service
- Security as a Service
- Backup as a Service

Serviciile Amazon

- ***Elastic Compute Cloud***
- ***Simple Storage Service***
- ***Simple Queue Service***
- ***SimpleDB***
- ***CloudFront***

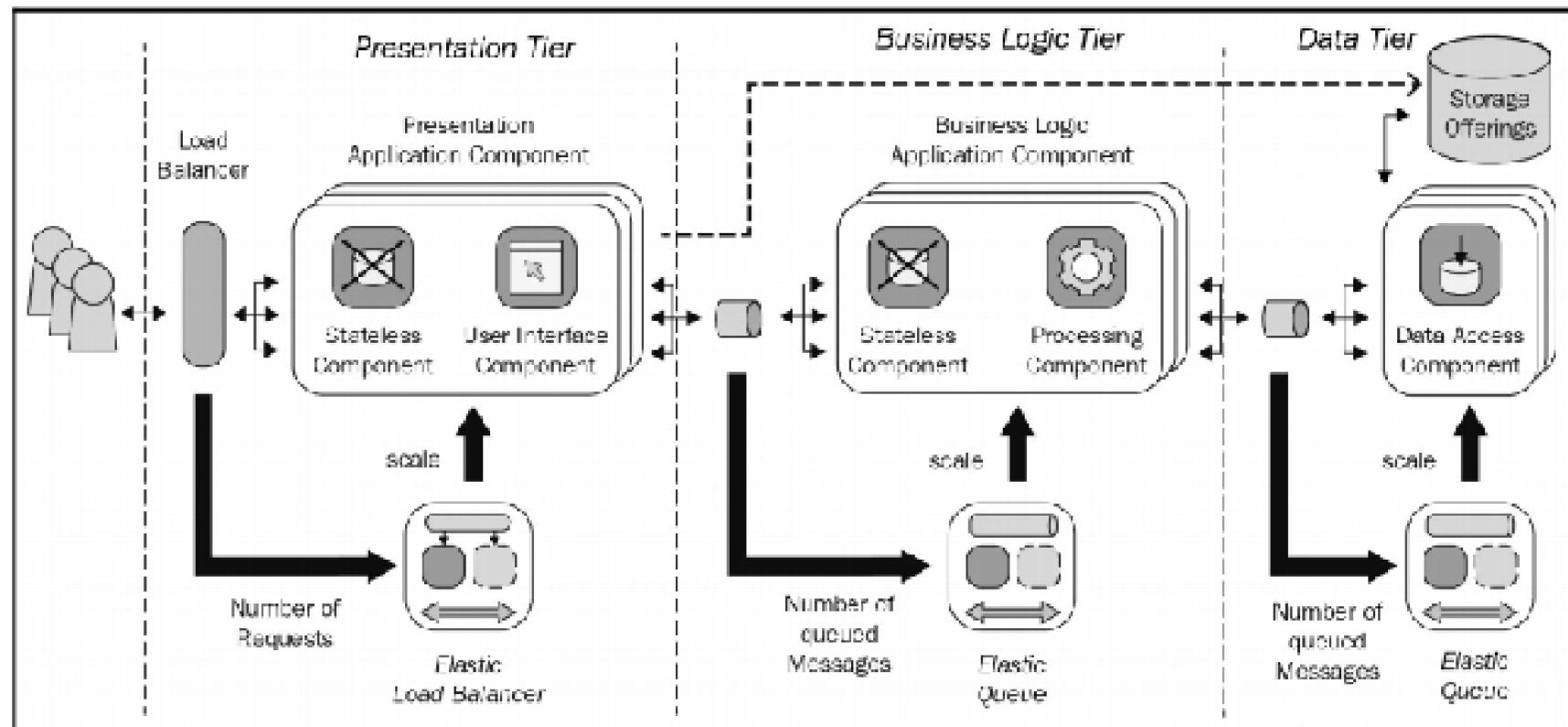
Windows Azure



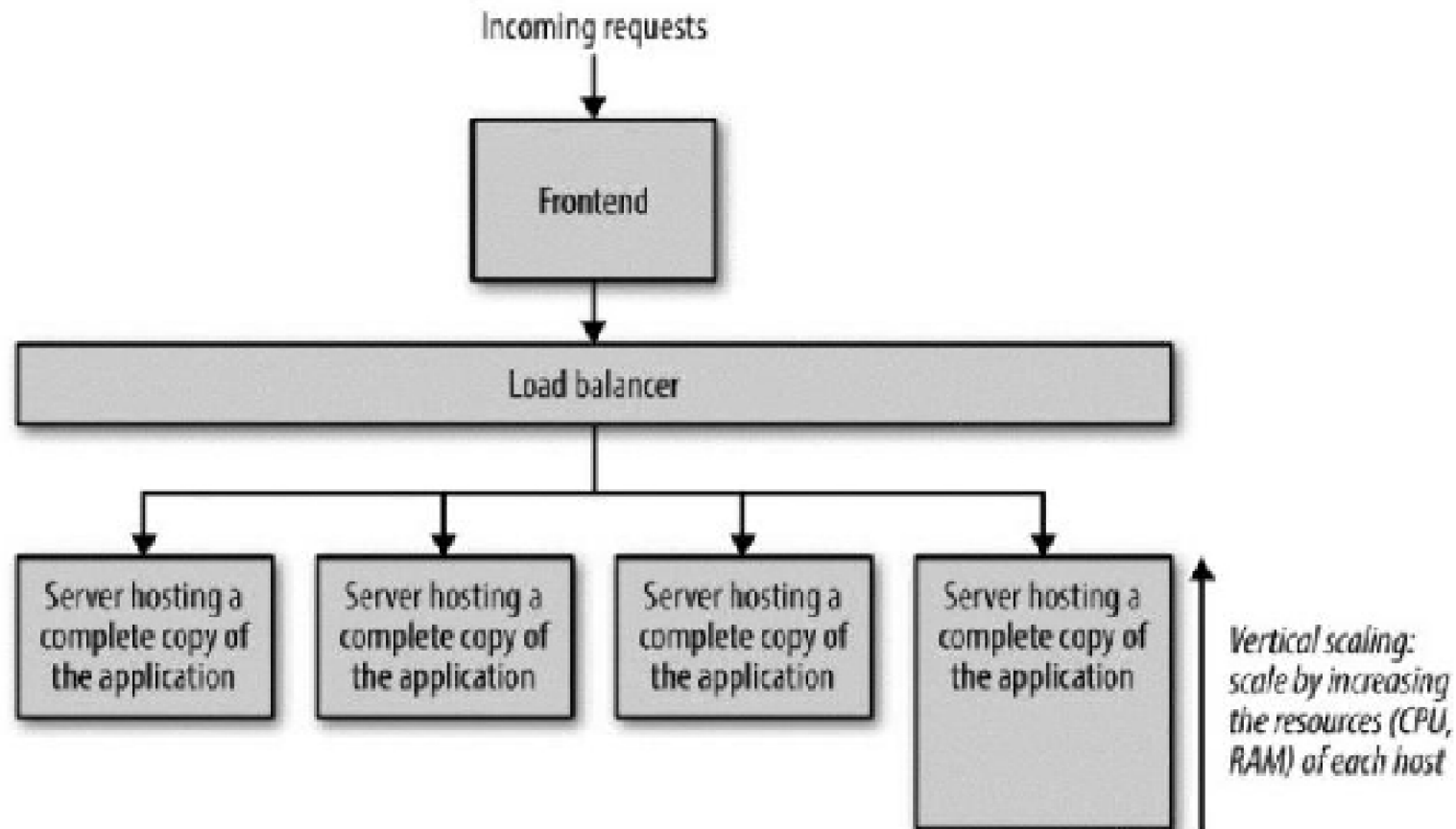
Terminologie și concepte specifice norilor

- **Centru de calcul cu patru straturi (Tier 4 data center)**
- **Hiperconvergenta**
- **Platforma hiperconvergenta**

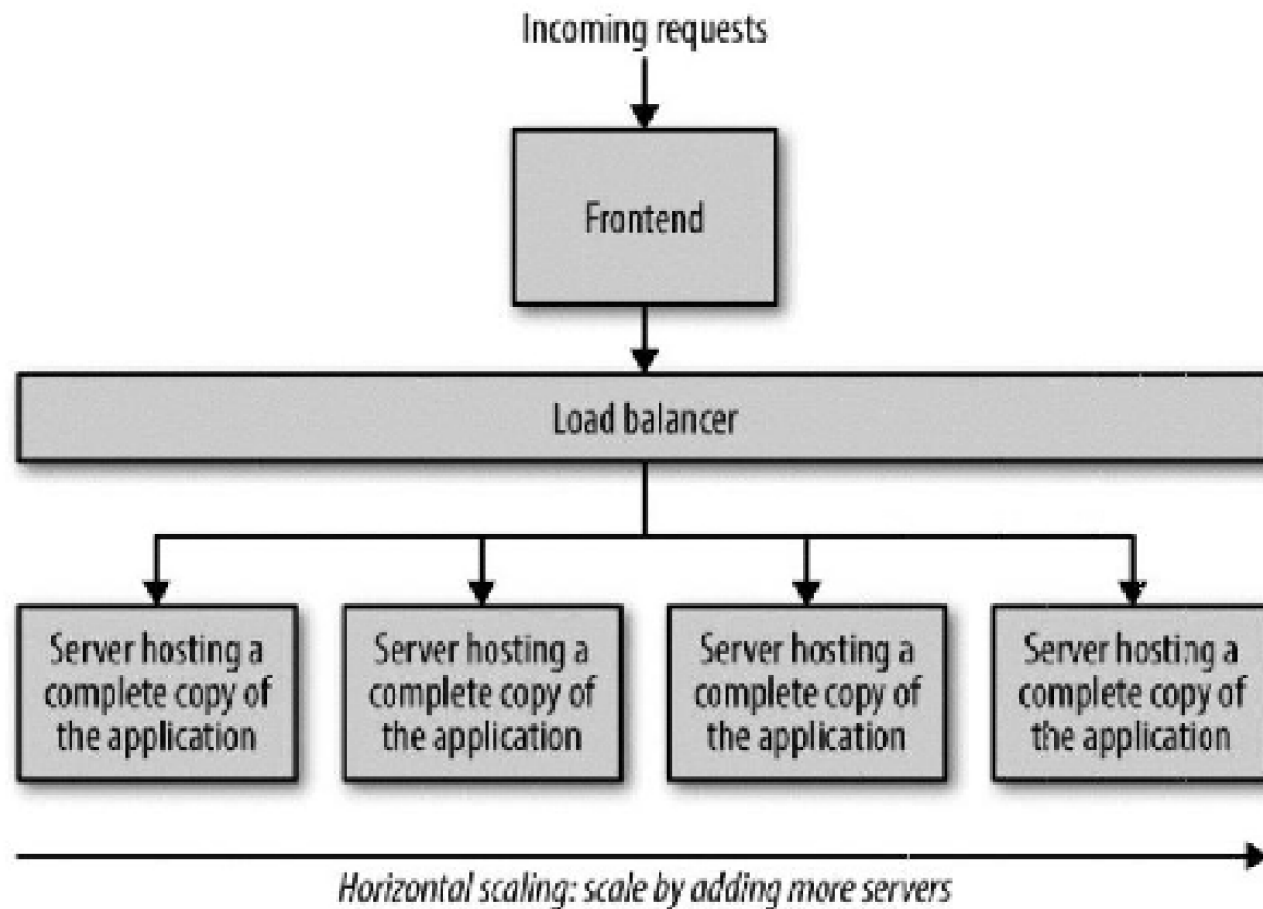
Arhitectura norului



Scale-up sau Vertical Scaling



Scale-out sau Horizontal Scaling



Modelul de securitate al nor

