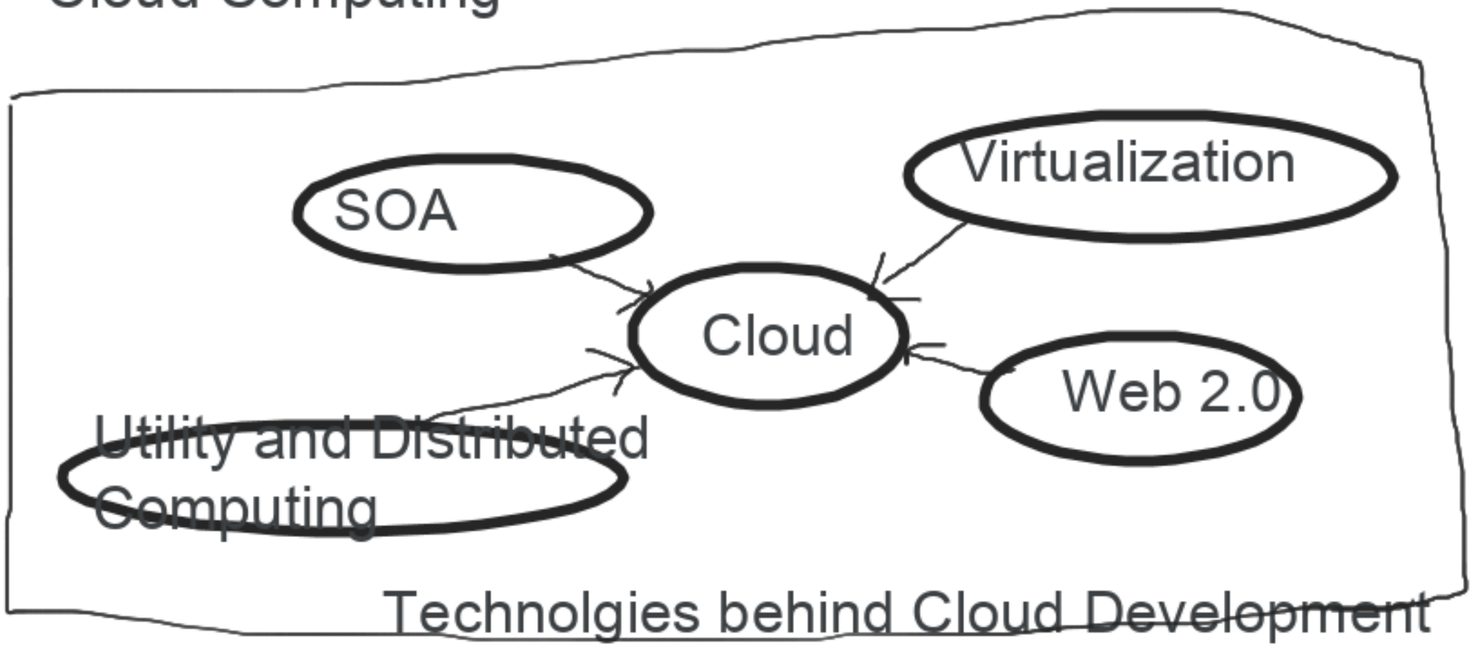
Cloud Computing

Trends of computing Models

*Distributed computing
*Grid computing
*Cluster computing
*Utility computing
*Cloud computing



Cloud Service Model

SaaS: Google docs,CRM

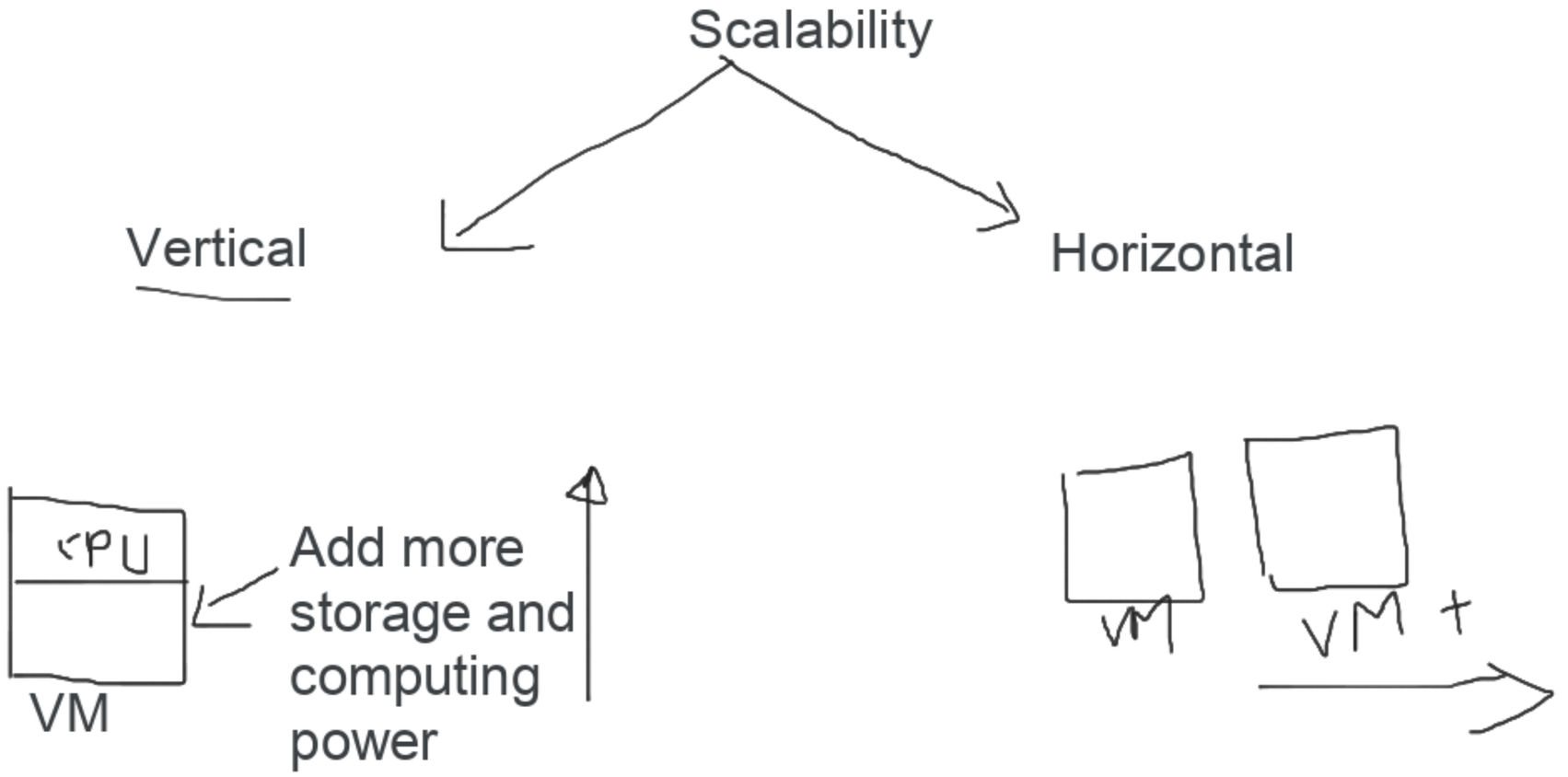
PaaS: google app engine,Azure

IaaS: Amazon EC2(elastic comput cloud) ,AWS S3(simple storage service).

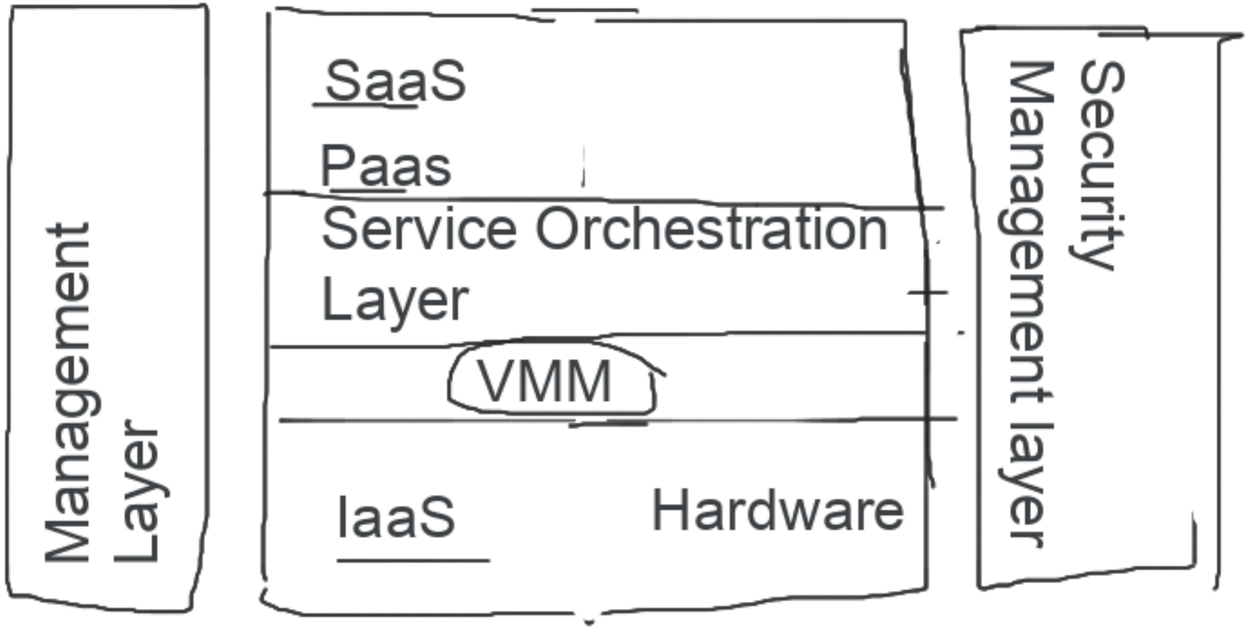
SaaS:Storage asa Servicec.
BaaS
XaaS:Everything as a service

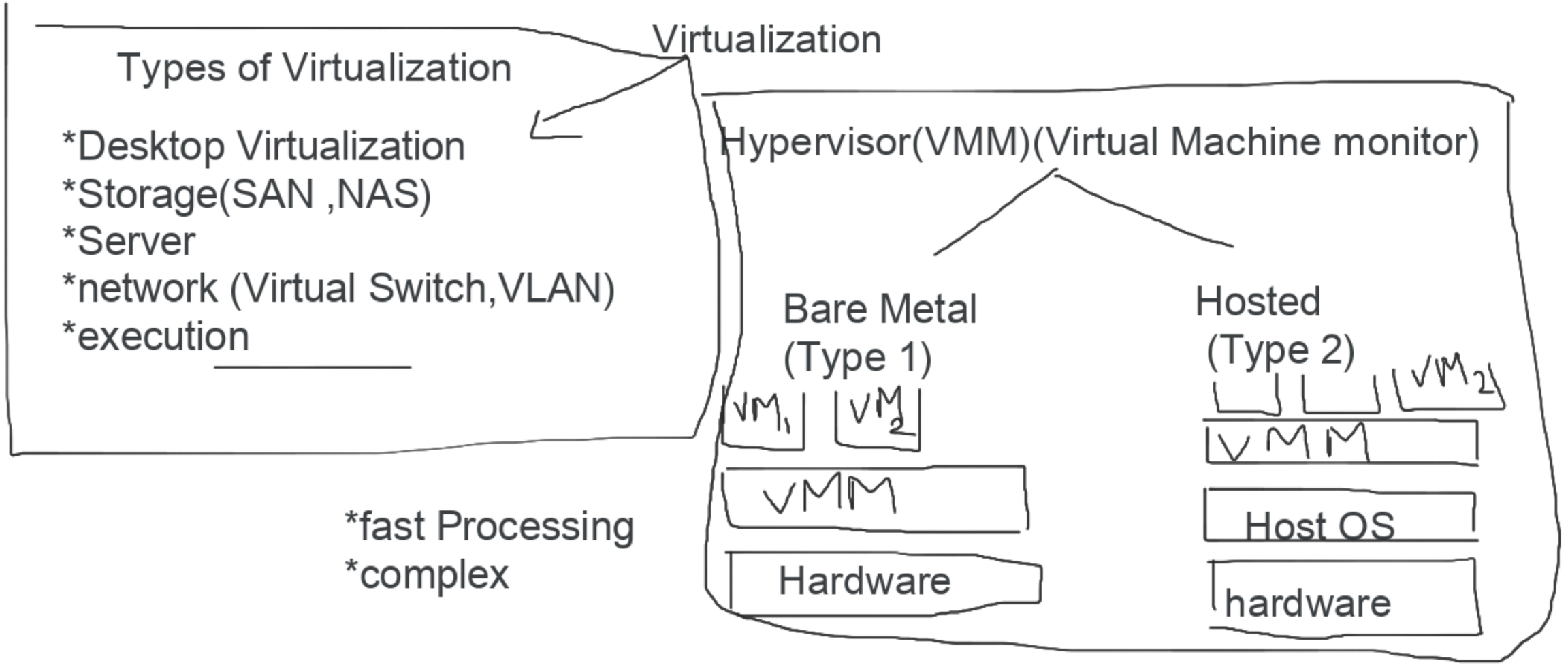
Deployment model

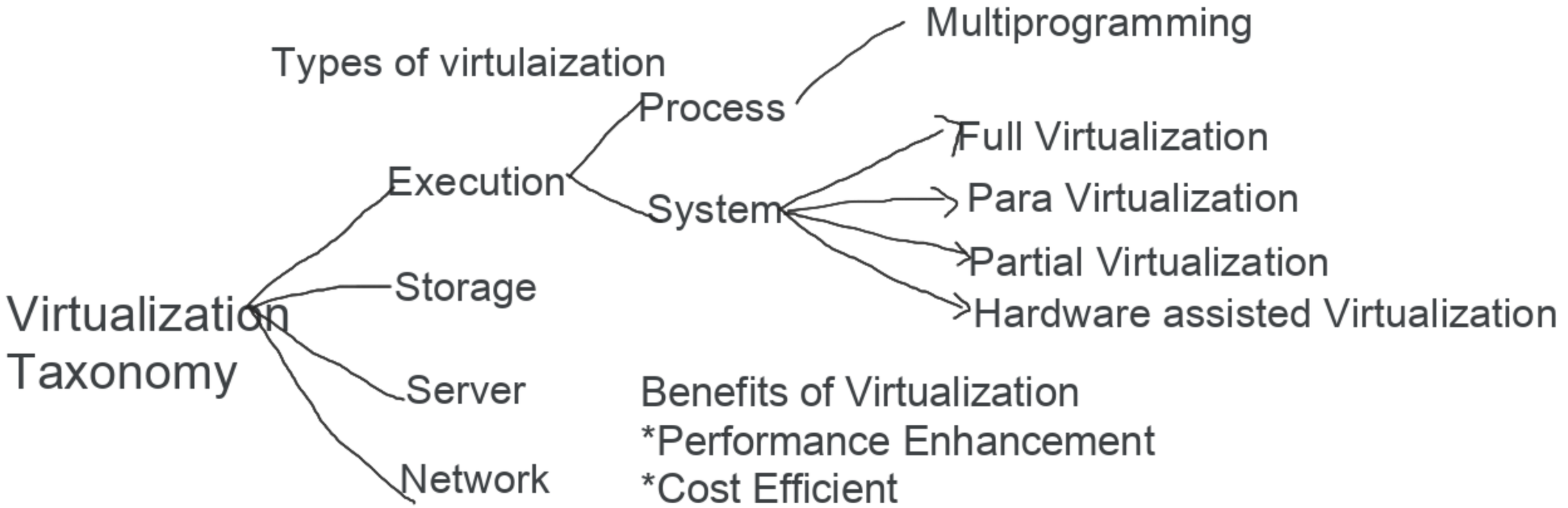
*Public cloud
*Private cloud.
*Hybrid Cloud
*Community Cloud .


Scalability
Vertical
Horizontal
CPU
VM
Add more storage and computing power
VM
VM
t

Cloud reference Model




Virtualization
Types of Virtualization
*Desktop Virtualization
*Storage(SAN ,NAS)
*Server
*network (Virtual Switch,VLAN)
*execution
Hypervisor(VMM)(Virtual Machine monitor)
Bare Metal
(Type 1)
VM1
VM2
VMM
Hardware
Hosted
(Type 2)
VM1
VM2
VMM
Host OS
hardware
*fast Processing
*complex



Benefits of Virtualization

*Performance Enhancement
*Cost Efficient
*Improve Flexibility& management
*Efficient Resource utilization
*Disaster recovery management
*Energy saving
*portabilty and testing

Full virtualization
*Guest Operating System get Modified
*Run on raw hardware
*priveldge instruction(system call) easily interpreted.
*Secure and complex
*Cost efficient
VMWARE ESXi

Para Virtualization
*No modification of OS
*explicit system call arec executed
*simple
* helpful in performance critical application
XEN

Virtual Machine Migration