

CLOUD

COMPUT

ING

CHANGING THE WAY IT WORKS



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What is Cloud Computing??

- *“Cloud” is actually a metaphor for the Internet.*
- *Cloud computing is a paradigm in which information is permanently stored in servers on the Internet.*
- *Cloud Computing is Internet-based computing, whereby shared resources, software, and information are provided to computers and other devices on demand, like the electricity grid*



Introduction



- *It offers the ability to access softwares or information that can be delivered on-demand, over the internet, without the need to store it locally.....*
- *The cloud is a large group of interconnected computers.*
- *It is a document-centric concept not PC centric.*





Why cloud computing?

The Traditional Model :

- *Building and running applications complex, expensive, and risky.*
- *Electricity needed to power the servers as well as the systems to keep them cool.*



New Model (Cloud Computing):

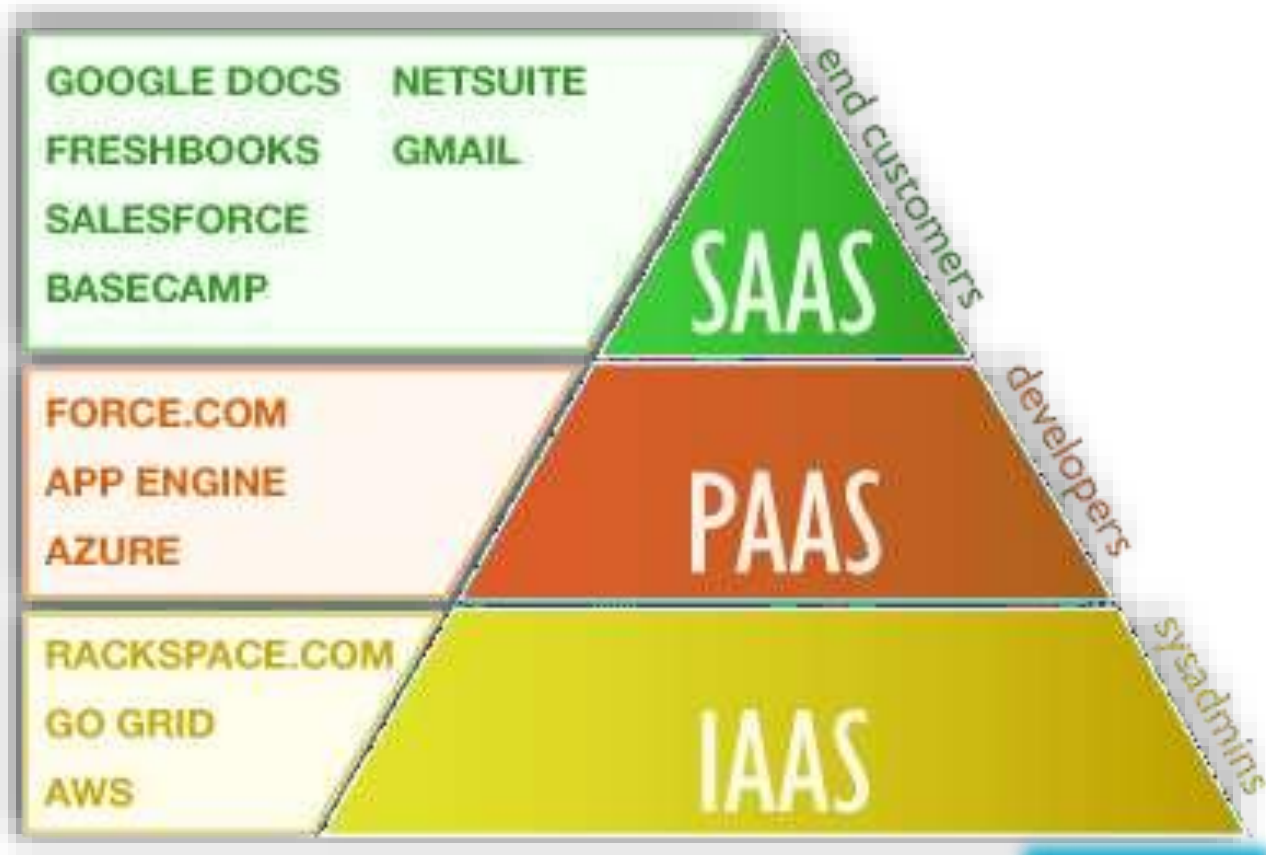
- *Provides all the infrastructure needed to run applications over the Internet.*



Cloud Services



- *Software as a Service (SaaS)*
- *Platform as a Service (PaaS)*
- *Infrastructure as a Service (IaaS)*



Cloud Services

SaaS

(Software as a Service)

Applications, typically available via the browser:

- Google Apps
- Salesforce.com

PaaS

(Platform as a Service)

Hosted application environment for building and deploying cloud applications:

- Salesforce.com
- Amazon E2C
- Microsoft Azure

IaaS

(Infrastructure as a Service)

Utility computing data center providing on demand server resources:

- HP Adaptive Infrastructure as a Service
- Rackspace
- Amazon E2C & S3

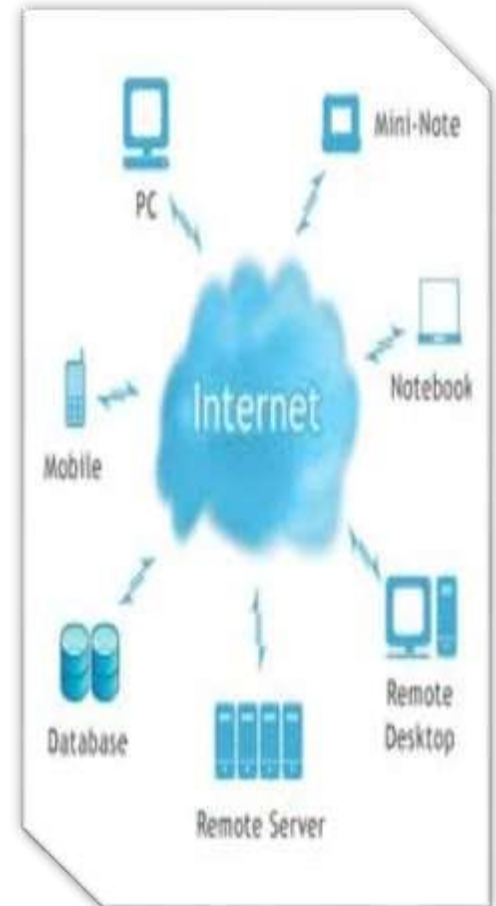
SaaS is the strongest Cloud trend and Service

Applications of Cloud Computing

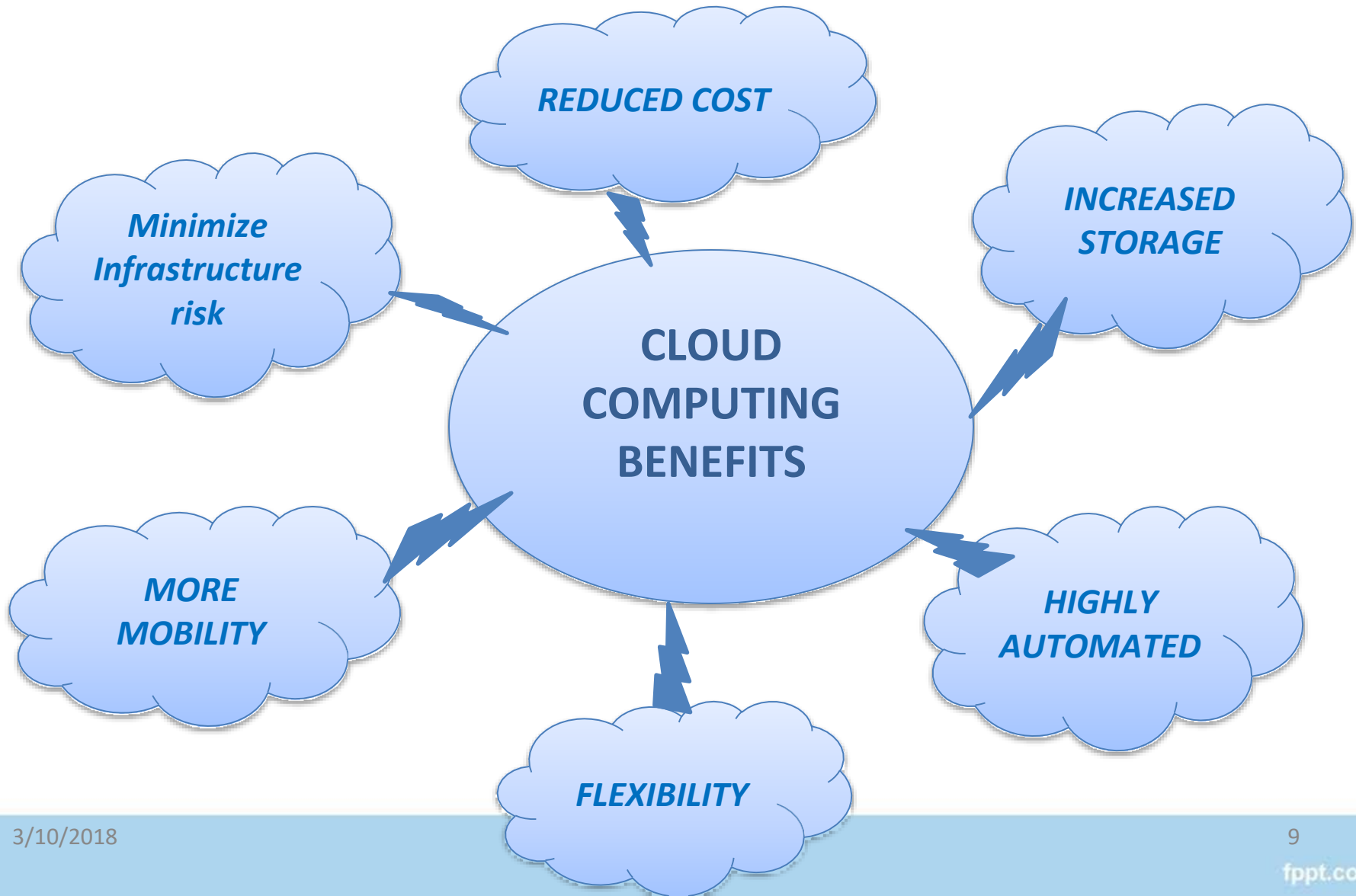
PRACTICALLY LIMITLESS AND
EASILY ACCESSIBLE

IT SAVES THE COST OF
INFRASTRUCTURE AND HARDWARE
MAINTAINANCE

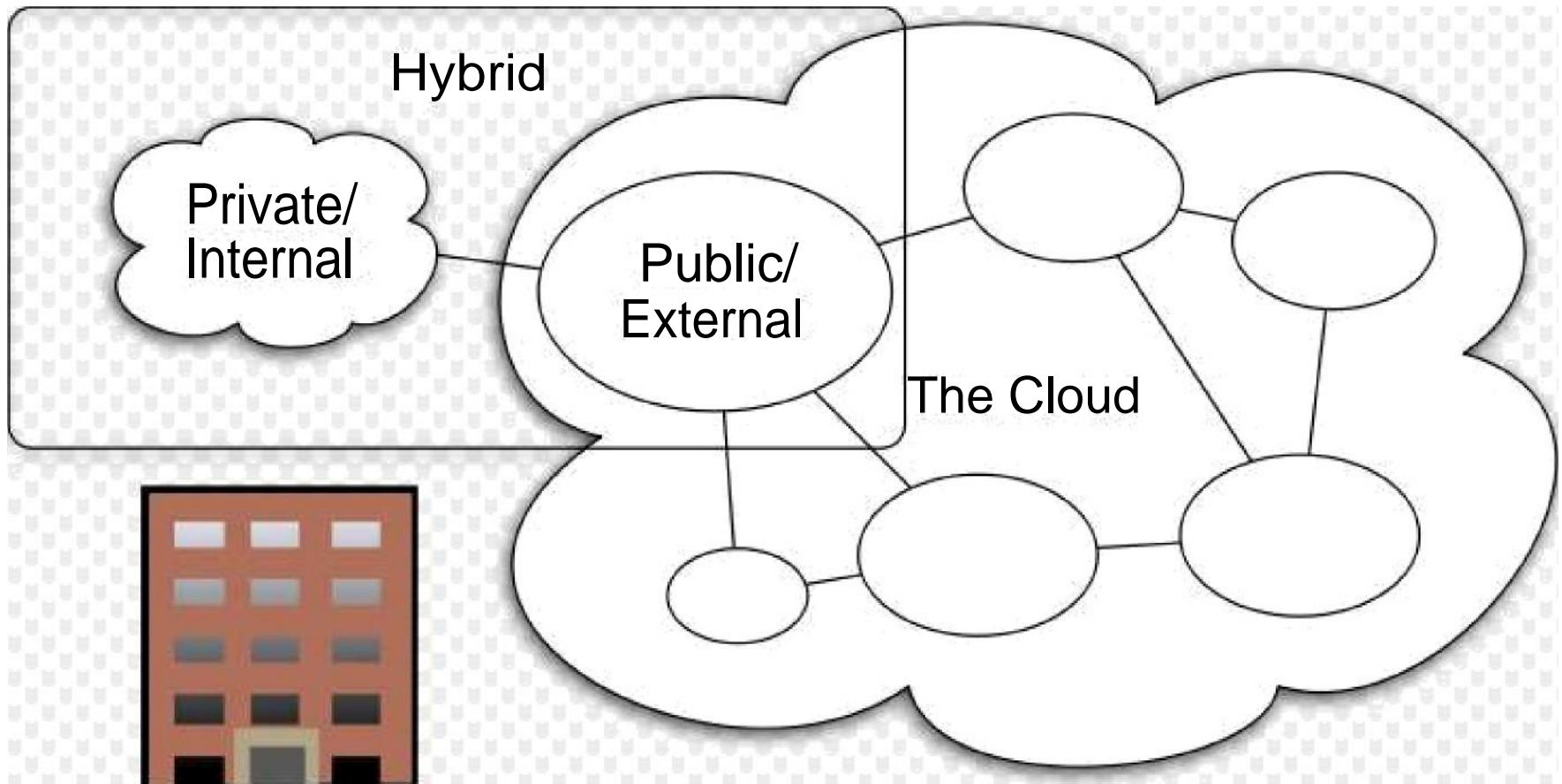
IT PROVIDES THE ACCESS TO
COMMERCIALY AVAILABLE
APPLICATIONS



Benefits of Cloud Computing



Architecture



Oil Premises / Internal

Off Premises / Third Party

Cloud Architecture Types

- **Public:** The services are delivered to the client via Internet from a **third party service provider**

Example: Amazon

- **Private:** The services are managed and provided **within the organization**. There are less restriction on network bandwidth, fewer security exposures and other legal requirements compared to public cloud.

Example: HP data centers

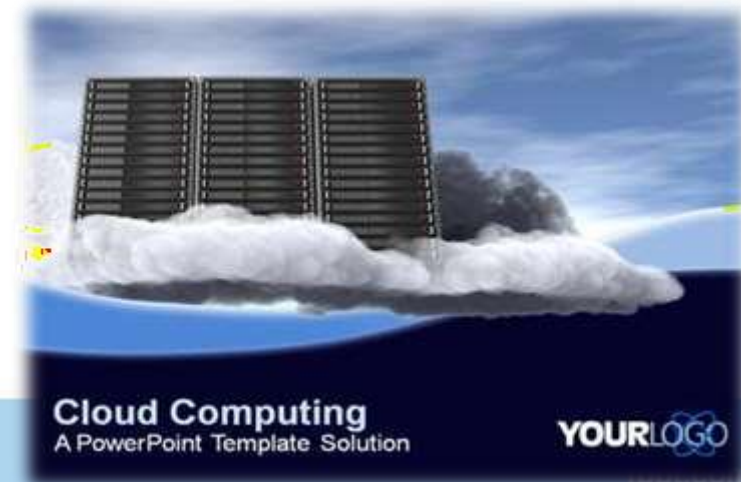
- **Hybrid:** There is a combination of services provided from public and private clouds.



References



- <http://www.infoworld.com/d/cloud-computing/what-cloud-computing-really-means-031>
- <http://www.pcmag.com/article2/0,2817,2372163,00.asp>
- <http://webtrends.about.com/od/enterprise20/a/cloud-computing.htm>
- http://www.informationweek.com/news/services/hosted_apps/208700713





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