

01) What is cloud?

→ "The cloud" refers to servers that are accessed over the Internet, and the software and database that run on those servers. Cloud servers are located in data centers <sup>all over world</sup>.

02) Difference between cloud and Internet?

→ Cloud Computing

Internet:

- \* Cloud computing is an Internet service that allows the accessing, processing & storage of data.
- \* cloud computing is dependent on the Internet for its operations.
- \* Cloud computing is a software infrastructure on the Internet.
- \* The Internet is a network of networks that encompasses all Internet services.
- \* The Internet is not dependent on cloud computing for its operation.
- \* Internet provides software/hardware infrastructure to establish and maintain connectivity.

03) What are the 2 models available in cloud?

\* Service Based models      \* Deployment Based models

1. Infrastructure as a service
2. Platform as a service
3. Software as a service

1. Public cloud
2. private cloud
3. Hybrid cloud
4. Community cloud

cloud client



SaaS

Application : CRM, Office suit, Email, Games → End users



PaaS

Platform : Application, Development, Deployment models/tools. DB, WS (web service) → Developers

IaaS

Infrastructure : Application, Development, Deployment tools (virtual machine, Servers - storage, load balancer, Network) → Operators / IT.

# Cloud Deployment models

## public cloud

- Typically have massive amounts of available space, which translate into easy Scalability, Recommended for software development and collaborative projects.

## private cloud

- usually reside behind a Firewall and are utilized by a single organization Recommended for business with very tight regulatory requirements.

## Hybrid cloud

- combine public cloud with private clouds to allow the two platform to interact seamlessly, Recommended for business, balancing big data analytic with strict data privacy regulations

## Community Cloud

- A collaboration, multi-tenant platform used by several distinct organization to share the same application, users are typically operating within the same industry or field

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## \* Advantages of cloud computing

- \* Reduced IT costs
- \* Scalability
- \* Business continuity
- \* collaboration efficiency
- \* allows us to quickly and easily access store information anywhere
- \* High speed - Quick deployment
- \* Data security
- \* Unlimited storage