TNGS Learning Solutions
INTRODUCTION TO CLOUD COMPUTING

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- **What is Cloud computing?**

- **Why Cloud Computing?**

- **What are benefits of Cloud Computing?**

- **What are the disadvantages of Cloud Computing?**

Definition of Cloud Computing

- **Information technology (IT)** is the use of any computers, storage, networking and other devices, infrastructure and processes to create, process, store, secure and exchange all forms of electronic data.

- **Cloud computing** is the on-demand delivery of IT resources and applications through internet with pay-as-you-go pricing model.

- Whether you run applications or deliver services that support the critical operations of your business, the cloud provides rapid access to flexible and low-cost IT resources.

- With cloud computing, you don't need to make large up-front investments in hardware/software and spend a lot of time managing that resources.
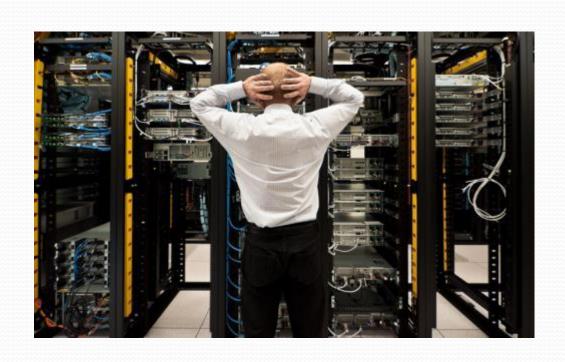
Definition of Cloud Computing

The practice of using a network of remote servers hosted on the internet to store, manage, and process data, rather than a local server or a personal computer.

On-Premises Data Center

We don't want to manage physical servers – Let's move to the cloud!

Cloud Computing Cont……

- Cloud computing provides an easy way to access servers, storage, databases, and a broad set of application services over the internet.

- Cloud computing providers such as AWS owns and maintain the network-connected hardware required for those application services, while you provision and use what you need for your workloads.

WHY CLOUD COMPUTING ?

- Many businesses large and small use cloud computing today either directly (e.g. Google or Amazon) or indirectly (e.g. Twitter) instead of traditional on-site alternatives.
  - Reduction of costs
  - Universal access
  - Up to date software
  - Choice of applications
  - Potential to be greener and more economical
  - Flexibility

BENEFITS OF CLOUD COMPUTING

- **Faster Deployments:**
  - Because there's no wait for local computing resources
- **Usage-based pricing:**
  - Letting you pay only for what you use
- **Less financial risk:**
  - With lower up-front investment in hardware and software
- **Easier upgrades:**
  - With no on-premises software to update
- **Reduced need for on-premises resources:**
  - such as servers and IT staff

DISADVANTAGES OF CLOUD COMPUTING

- **Security Issues:**
  - Security is the major issue in cloud computing.
  - The cloud services implement the best security standards and industry certifications.
    - *However, storing data on an external service providers always bears a risk.*

- **Technical Issues:**
  - You always need to rely on the internet to uploading/downloading and migrating.