The Benefits of Cloud

The benefits of the cloud is a summary of reasons why an organization would consider adopting or migrating to utilizing public cloud.

- **Agility**
  - Increase speed and agility
- **Pay-as-you go pricing**
  - Trade capital expense for variable expense
- **Economy of scale**
  - Benefit from massive economies of scale
- **Global Reach**
  - Go global in minutes
- **Security**
- **Reliability**
  - Stop spending money on running and maintaining data centers
- **High Availability**
- **Scalability**
  - Benefit from massive economies of scale
- **Elasticity**

Cloud Architecture Missing:
- Fault Tolerance
- Disaster Recovery

The Benefits of Cloud is a reworking and expansion of the Six Advantages of Cloud

Six Advantages to Cloud

1 Trade capital expense for variable expense

You can **Pay On-Demand** meaning there is no upfront-cost and you pay for only what you comsume or pay by the hour, minutes or seconds.
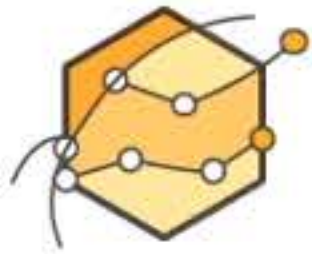*Instead of paying for upfront costs of data centers and servers*

2. Benefit from massive economies of scale

You are **sharing the cost with other customers** to get unbeatable savings.
Hundreds of thousands of customers utilizing a fraction of a server

3. Stop guessing capacity

Scale up or down to meet the current need. Launch and destroy services whenever
Instead of paying for idle or underutilized servers.

4. Increase speed and agility

Launch resources within a few clicks in minutes
instead of waiting days or weeks of your IT to implement the solution on-premise

5. Stop spending money on running and maintaining data centers

Focus on your own customers, developing and configuring your applications
Instead of operations such as of racking, stacking, and powering servers

6. Go global in minutes

Deploy your app in multiple regions around the world with a few clicks.
Provide lower latency and a better experience for your customers at minimal cost.

🤔 **The Six Advantages of Cloud was AWS *original description* of Cloud Benefits**

Seven Advantages to Cloud

Cost-effective — You **pay for what you consume**, **no up-front cost**. On-demand pricing or Pay-as-you-go (PAYG) with thousands of customers sharing the cost of the resources

Global — Launch workloads **anywhere in the world**, Just choose a region

Secure — Cloud provider takes care of physical security. **Cloud services can be secure by default** or you have the ability to configure access down to a granular level.

Reliable — Data backup, disaster recovery, data replication, and fault tolerance

Scalable — Increase or decrease resources and services based on demand

Elastic — **Automate** scaling during spikes and drop in demand

Current — The underlying hardware and managed software is patched, upgraded and replaced by the cloud provider without interruption to you.