

# Benefits of Cloud Computing

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Let's look at some of the benefits of Cloud Computing in general.

## 1. Pay-as-you-go Economic Model

- Drastically reduces capital expenditure
- Users can pay for exactly what they use
- Reduced time to market

The Pay-as-you-go economic model is seen as one of the important benefits of cloud computing. This has the potential to drastically reduce capital expenses, particularly for businesses.

As users pay for exactly what they use, there is a good potential for costs savings over buying and maintaining servers. The pay-as-you-go economic model also helps businesses to reduce their time to market as they won't have to endure the cycle associated with capital expenses.

## 2. Simplified IT Management

- Access to the internet required.
- Cloud providers manage the details.

The next benefit is simplified IT management. Traditionally, management of IT for organizations in an involved processes which increases with the amount of infrastructure and types of services that's maintained by the organization. With cloud computing, organizations are responsible for maintaining an connection to their cloud provider and the rest is managed by the cloud provider itself.

## 3. Scale Effortlessly and Quickly

- Resources can be rented and released as required
- Instant scalability
- Software Controlled

A major benefit of cloud computing is the ability to scale effortlessly and quickly. Resources can be rented and released as required, allowing organizations to scale up and down the resources that they use in accordance with demand. Traditionally, scaling resources and software was a laborious process, which took weeks or even months to plan and execute, but with cloud computing, this can be reduced to mere minutes, in a software-controlled manner.

#### **4. Flexible Options**

- Configure software packages, instance types operating systems.
- Any software platform
- Access from any machine connected to the Internet

The cloud offers increased flexibility, when compared to traditional hosting/colocation and outsourcing models. With certain types of cloud offerings, users can configure their own software packages, and change their resource types or even operating systems. This allows them to use a platform of their choosing, or select a cloud vendor that best fits their needs, as public clouds typically allow access from any machine connected to the internet.

#### **5. Resource Utilization is improved**

- Reduce Idle resources by sharing and consolidation
- Better utilization of CPU / Storage and Bandwidth.

Clouds improve resource utilization, as multiple users typically share resources on clouds. This enables for better utilization of CPU, storage and bandwidth.

## 5. Resource Utilization is improved

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And finally, cloud computing is better for the environment. Sharing resources means that less servers overall, which in turn reduces power consumption and emissions.

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