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STUDENT WORKSHEET

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## Activity: Introduction to Cloud Computing

**Instructions:** Complete this worksheet using reputable online sources. Use hints such as the author's name, date of posting, sources cited, website design, and writing style to judge a website's reliability. As you work, discuss the information with a partner to help remember the information.

Define each of the following terms in your own words.

**Cloud computing:** Accessing resources like servers, storage over internet on demand & without directly managing them yourself. Delivery of computing services over internet, allowing users to access & utilize computing resources without need of owning or maintaining physical infrastructure

**Cloud storage:** Store files, photos, videos & data securely in cloud instead of your local devices. Offers flexibility, scalability & often includes features like data redundancy & backup.

**Amazon Web Services (AWS):** Offers wide range of services, including computing power, storage options, networking capabilities, and more. AWS allows businesses & developers to access scalable & cost-effective computing resources on demand, without need for investing physical infrastructure.

**Server:** Handle specific tasks, such as hosting websites, storing & managing data, running applications, or providing network services like email or file sharing. They often operate continuously and are optimized for reliability, performance & security.

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List the main benefits of cloud computing for businesses and write a short description of each.

1. Scalability - offers business ability to scale computing resources up or down according to their needs.

2. cost-effectiveness - operates on pay as you go model, allowing business to pay only for resources they use.

3. Flexibility & Accessibility - Enables users to access data & applications from anywhere with internet connection & on any device.

4. Enhanced Collaboration - Facilitate seamless communication & collaboration among teams, regardless of their location.

5. Improved Security & Reliability - Providers invest heavily in security measures, such as data encryption, authentication mechanisms to ensure protection of sensitive information.

6. Elasticity & Resource optimization - Allows business to dynamically allocate resources based on workload demand, optimizing resource utilization & minimizing wastage.

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Find information about each of these AWS services.

| AWS Service | What It Is | What It Is Used For |
|---|---|---|
| Amazon Elastic Compute Cloud (Amazon EC2) | Provides on demand scalable computing capacity in cloud. | → Running cloud-native & enterprise<br>→ Developing & testing<br>→ High performance<br>→ Web servers |
| Amazon Relational Database Service (Amazon RDS) | managed relational database service easily set up, operate & scale relational database in cloud. | → Simplify database<br>→ Increase database availability & reliability<br>→ Reduce cost<br>→ Improve performance |
| Amazon CloudFront | Cache & deliver content to users with low latency & high transfer speeds | → static content<br>→ Dynamic content<br>→ Storing static website<br>→ Building data lakes |
| Amazon Simple Storage Service (Amazon S3) | Scalable & secure object storage service | → Sharing data<br>→ Mobile app data storage<br>→ Backup & disaster recovery |

What is one way that cloud computing has impacted society as a whole?

→ Increased accessibility & democratization of information & resources
→ Reduced barriers to entry
→ Improved access to education & learning
→ Enhanced collaboration & communication
→ Democratization of knowledge & information



→ Empowerment of individuals & communities