# **Understanding Cloud Computing**

## **Defining Cloud Computing**

Cloud computing is the on-demand delivery of IT resources over the Internet with pay-as-you-go pricing. Instead of buying, owning, and maintaining physical data centers and servers, you can access technology services, such as computing power, storage, and databases, on an as-needed basis from a cloud provider like Amazon Web Services (AWS).

#### **Cloud Characteristics**

- 1. Cost
- Global scale
- 3. Performance
- 4. Security
- 5. Reliability
- 6. Productivity
- 7. Speed

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#### **Types of cloud computing**

The three main types of cloud computing include Infrastructure as a Service, Platform as a Service, and Software as a Service. Each type of cloud computing provides different levels of control, flexibility, and management so that you can select the right set of services for your needs.

- Infrastructure as a Service (laaS)
- 2. Platform as a service (PaaS)
- Software as a Service (SaaS)
- 4. Serverless computing

### **Uses of cloud computing**

- Create cloud-native applications
- Store, back up, and recover data
- Stream audio and video
- Deliver software on demand
- Test and build applications
- Analyze data
- Embed intelligence