# Week 1 Assignments

1. **Describe with short examples: SaaS, PaaS and IaaS.**

SaaS, PaaS, and IaaS are types of cloud services that vary in flexibility, control, and management levels.

SaaS applications are fully functional and ready-made software which we don’t have to worry about the underlying infrastructure or platforms. It’s a SaaS because users access it via a web browser without worrying about software updates or server management. Users can just access it via web browsers using their emails and passwords.

Secondly, PaaS, which stands for Platform as a service, provides us with a good place to build our own software, Web applications and many more. This service is ideal for developers who can build and deploy applications without worrying about underlying things. Heroku is one of the examples of this service. For instance, I recently built a web app named My Book Store and deployed it using Heroku.

At last, IaaS is like a whole virtual machine where we can scale up and down the machine as per our needs. We can have full control over the operating system and applications. Many large companies use these services. They don’t need to buy any physical hardware. For example, Amazon Web Services (AWS) EC2.

In Summary, SaaS provides ready to use software, PaaS offers a development platform, and IaaS gives virtual computing resources each has different needs in the cloud computing environment.

Note: Some words and phrases are written using the help of ChatGPT.

**References:**

[Types of Cloud Computing - SaaS vs PaaS vs IaaS - AWS (amazocom)](https://aws.amazon.com/types-of-cloud-computing/)

1. ***List and explain usual VPS advantages for small or start-up companies***

VPS stands for Virtual Private Server.