Cloud Computing

"Cloud computing is the delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet ("the cloud") to offer faster innovation, flexible resources, and economies of scale"

What is Cloud Computing?

https://azure.microsoft.com/en-ca/overview/what-is-cloud-computing/

Deploying without cloud computing

- Buy and install hardware
- Set-up networking and security
- Install operating system
- Install any other required software

...

- Deploy to the internet

Deploying with cloud computing

- No hardware maintenance
- High reliability and availability
- Easier scalability
- Lower cost

IaaS vs PaaS vs SaaS

Infrastructure as a service (IaaS)

Infrastructure as a service (IaaS) - "renting" servers or computation power from some services like AWS or Google Cloud Platform. We're responsible for installing all the software to run an application.

Platform as a service (PaaS)

Platform as a service (PaaS) - Everything from an IaaS solution + all the software required to run the application.

Software as a service (SaaS)

Software as a service (SaaS) - Software provided to the end user as a service and resides on the cloud.

We'll be using a **PaaS (Heroku)** to deploy our **SaaS** application - **TinyHouse**!