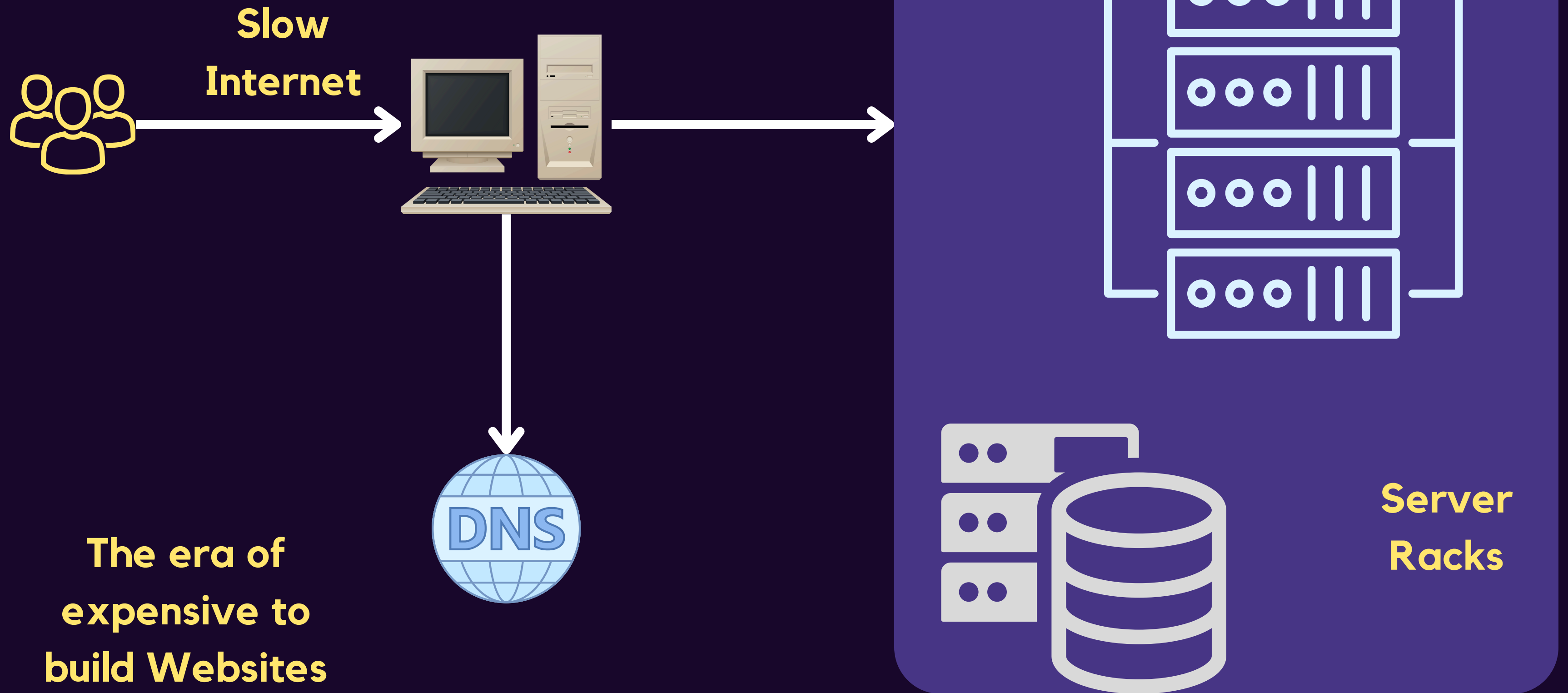
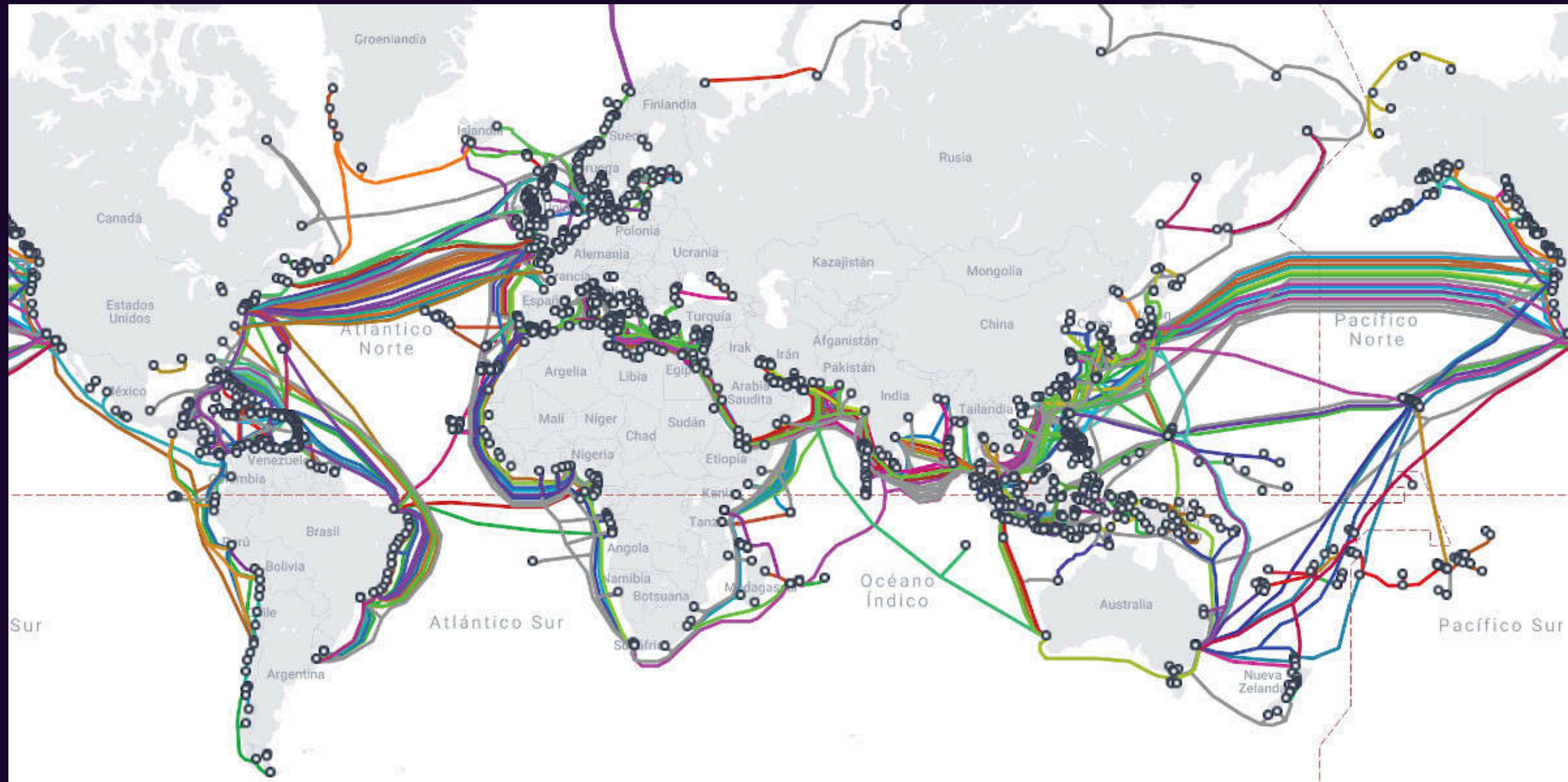


INTRODUCTION TO CLOUD

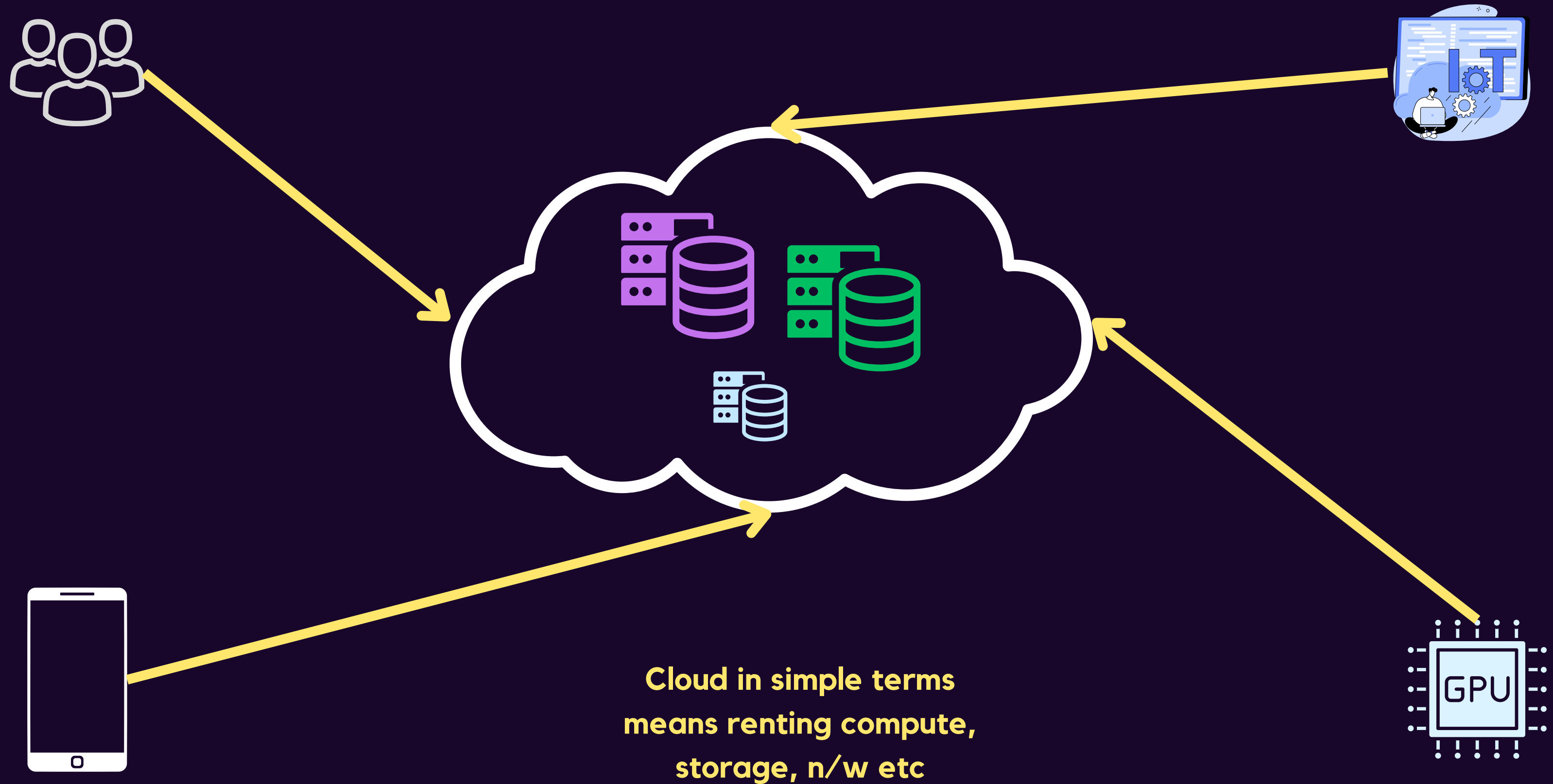
Pre-Cloud Times



Then Internet became Widespread



And that led to Cloud



Benefits of Cloud to small players

1. **No upfront hardware cost.**
2. **Ability to scale up or down (as per the need)**
3. **No min-use commitments**
4. **Flexibility to choose the regions**
5. **Pay for only what you use**

Benefits of Cloud to big players



1. Reduction in resource wastage
2. New (Profitable) Business Model
3. Multiple data centers -> Multiple edge locations
4. Cost reduction because of the Flexibility of cloud



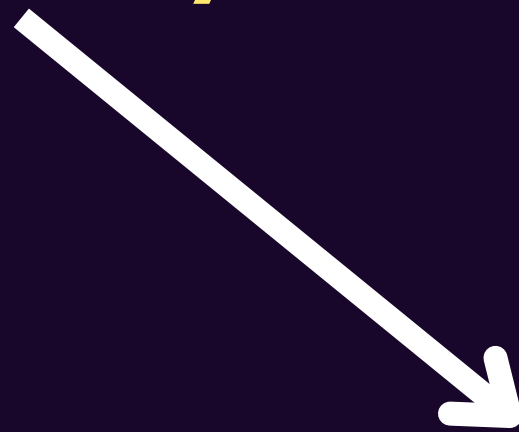
**Azure Cloud
Demo.
Running a
static page via
cloud.**

Connecting to the Server via SSH

```
ssh -i ./key.pem <username>@ip_addr
```


Installing a Server for Static Content

1. `sudo apt update`
2. `sudo apt install nginx`
3. `sudo systemctl start nginx`
4. `sudo systemctl enable nginx`
5. `sudo systemctl status nginx`



Stands for "superuser
do", used to run
commands with
elevated privileges

Securing the data flow with TLS

1. `sudo apt update`
2. `sudo apt install certbot python3-certbot-nginx`
3. `sudo certbot --nginx -d learndsalgo.com -d
www.learndsalgo.com`
4. `sudo certbot renew --dry-run (optional)`

Reference:

<https://www.digitalocean.com/community/tutorials/how-to-install-nginx-on-ubuntu-20-04>

Copy Code / Data to Server

```
1. scp -i ~/.ssh/id_rsa /home/<file>.ext  
   user_name@server_addr:/home/john/files/
```

Demo Connecting Domain Name

**Demo: Connecting domain name
to a cloud hosted server.**

Task-1:

Deploy a model to Cloud making it accessible over a Restful API.

Connect it to a Domain Name.

Make all end-points accessible via Postman.

Task-2:
Install docker, docker-
compose on your local
machine.