



WHAT IS

# CLOUD

COMPUTING

@codechips

Art Credit: fineartamerica



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fineartamerica



Lets say you made an  
Social media app

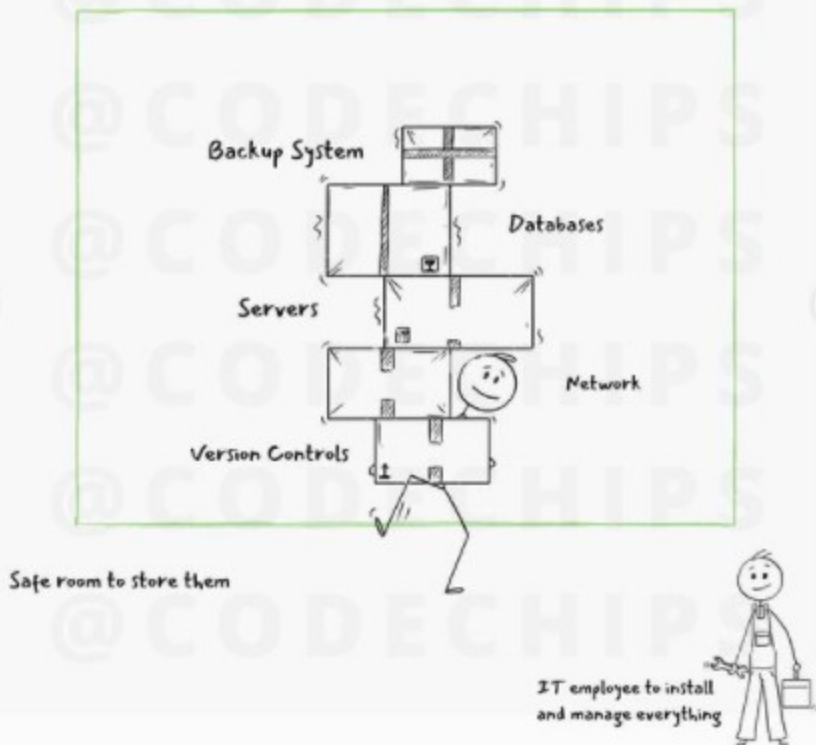
Tinder for Programmers

Search Merge  
Algorithm





You will need a number of things  
to make it a success





So you build your  
own infrastructure





But the Cost to build and maintain these Data Centers is not low



Very low chances  
of data recovery

uh .. oh



maintaining  
hardware and  
software



providing  
constant  
updates



Less security



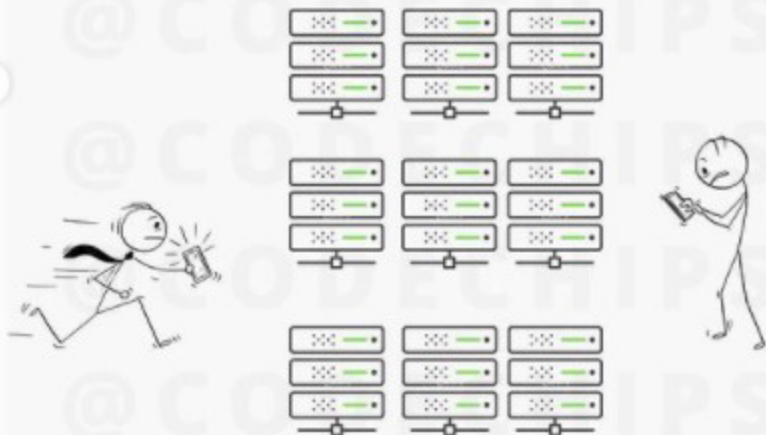
## Scaling Up and Down

Up

Down

Your app blew up and now you need to immediately scale

But even when no one uses your app your servers are still running





# Cloud Computing

is the solution to all these problems



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 AWS and just focus on building your apps







# Types of Cloud Computing

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## On-Premises

## IaaS

Infrastructure as a Service

## PaaS

Platform as a Service

## SaaS

Software as a Service

Applications

Data

Runtime

Middleware

O/S

Virtualization

Servers

Storage

Networking

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MANAGED  
BY YOU

MANAGED  
BY YOU

MANAGED BY  
PROVIDER

MANAGED  
BY YOU

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MANAGED  
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Credit : artifakt Djalal Elbe

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