



**BATCH** : ZIP CAMP  
**LESSON** : AWS  
**DATE** : 09.05.2022  
**SUBJECT** : **CLOUD COMPUTING  
BASICS**



techproeducation



techproeducation



techproeducation



techproeducation



techproedu



# Table of Contents

- ✓ Introduction to Cloud Computing
- ✓ Cloud Computing Architecture
- ✓ Deployment Models
- ✓ Service Model

## Introduction to Cloud Computing



# Introduction to Cloud Computing

## What is Cloud Computing ?

- The Cloud term refers to software and services running on the internet, not locally on your computer.
- So you can Store and access data and programs over the internet rather than the hard drive of your computer.
- Cloud Computing Application running on someone else's computer





# Introduction to Cloud Computing

## How Cloud Works?

- ✔ Information and data are stored on physical or virtual servers that a cloud computing service such as Amazon and its AWS company retain and monitor. As a user of personal or business cloud computing, you use an internet connection to access the stored information on the cloud.



# Introduction to Cloud Computing

## Why Cloud Computing ?

Cloud Computing evolved the ways we use a computer.

- ✔ From companies to private users, everybody relies on the cloud directly or indirectly most of the time in their daily lives.
- ✔ Nowadays, cloud-based activities are rising the Internet's capacity more than ever before. So, nearly everything in the digital world runs on cloud computing.



# Introduction to Cloud Computing

## Why Cloud Computing ?

- ✔ It increases the value of the work and promises to reduce costs and helps users focus on their business and work rather than IT obstacles.
- ✔ It offers flexibility, data recovery, little or no maintenance, easy access and a higher level of security.





# Advantages of The Cloud Technology

- ✔ There are various benefits of cloud computing technology. The most important ones are given below.



**Cost Efficiency**



**Elasticity & Flexibility**



**Reliability**



**Increased Security**



**Manageability**



**Availability**



**Centralization**



**Auto-Updating**



**No Maintenance**



# Advantages of The Cloud Technology



Cost Efficiency LUMES

- ✔ One of the most important benefits of Cloud Computing is its economy.
- ✔ Cloud computing helps to reduce a significant amount of expenditure on both capital & operational manner.
- ✔ You do not need to invest in expensive hardware, storage devices, and software, and only pay for the services you use. This also saves the infrastructure costs and the money needed to manage the network.
- ✔ It provides the companies with the lowest possible level of operation with zero data capacity and software requirements, the business can save significant capital costs.





# Introduction to Cloud Computing

## Advantages of The Cloud Technology



Elasticity & Flexibility

- ✔ Cloud computing helps you to reduce your resource demands and increase them according to your needs.
- ✔ For example, you can increase your resources if you have heavy traffic on your site and vice versa.
- ✔ Cloud computing gives you the flexibility to work anywhere you want, and all you need is an internet connection whenever you want.



# Advantages of The Cloud Technology



Reliability VOLUMES

- ✔ Cloud computing is very reliable as the stored data is secured and can not be manipulated.
- ✔ Several copies of the data are being made, and if the database fails, the data from the other side can be recovered.
- ✔ The company can take advantage of both the vast pool of redundant IT services and the process of failover.



# Advantages of The Cloud Technology



Increased SecurityMES

- ✔ Everything you access and save with cloud computing is on the cloud.
- ✔ Even if a laptop is lost or damaged, another computer can be used to access the company GUI. And since all of the records are stored on the cloud, there is no question about losing important documents because they have been saved on a hard drive laptop that is now lost or damaged.
- ✔ The full-time job of a cloud host is to track security carefully, which is significantly more efficient than a traditional in-house program, where an organization needs to divide its efforts among a multitude of IT issues, with security being just one of them.



# Advantages of The Cloud Technology



- ✔ Cloud computing provides improved and streamlined capabilities for IT management and maintenance by central resource management.
- ✔ Many items are handled by cloud computing. The only thing the user has to do is get an internet connection and a laptop.



# Advantages of The Cloud Technology



- ✔ By its definition, cloud computing depends on the Internet, ensuring that businesses interested in starting or extending their use of cloud-based services need to work closely with an IT consulting firm to show them how to manage bandwidth rates that will be sufficient to meet their IT needs.
- ✔ Cloud service providers offer up to 99.99% uptime to ensure that business operations and executions continue to flow.



# Advantages of The Cloud Technology



Centralization VOLUMES

- ✔ All data are stored in one location.
- ✔ So that multiple remote locations can be reached





# Advantages of The Cloud Technology

## Advantages of The Cloud Technology



Auto-Updating LUMES

- ✔ Software updates and enhancements can be a painful thing that cloud computing simplifies for you.
- ✔ The cloud service provider looks after and controls all software maintenance and upgrades.



# Advantages of The Cloud Technology



**No Maintenance**UMES

- ✔ Organizations need to think about managing the entire system while operating a conventional server setup.
- ✔ A cloud computing solution eliminates the need for any maintenance.
- ✔ Not only does it increases work efficiency, but also reduces costs of operations in the longer run.



# Disadvantages of The Cloud Technology

✓ The drawbacks of cloud computing are as follows:



**Internet Dependency**



**Downtime**



**Loss of Control**



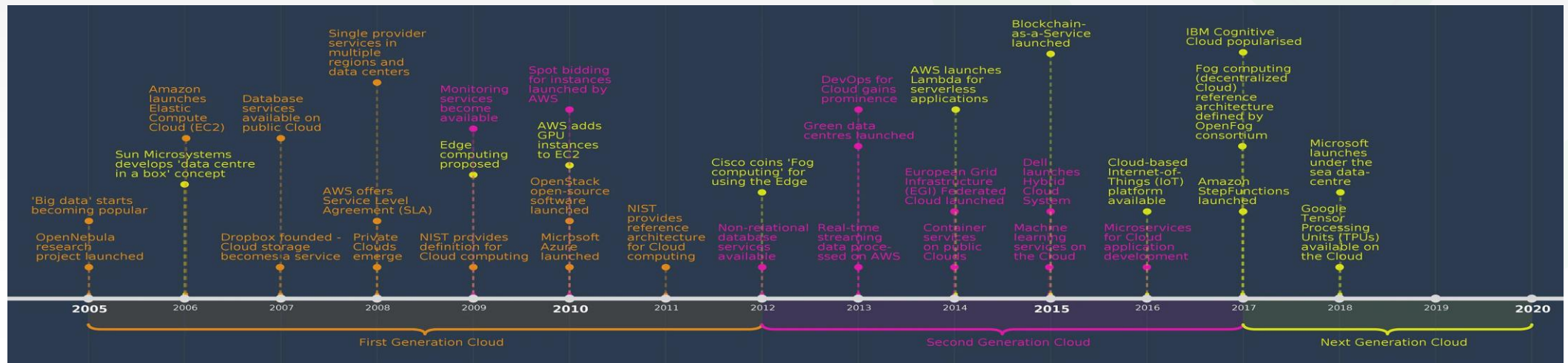
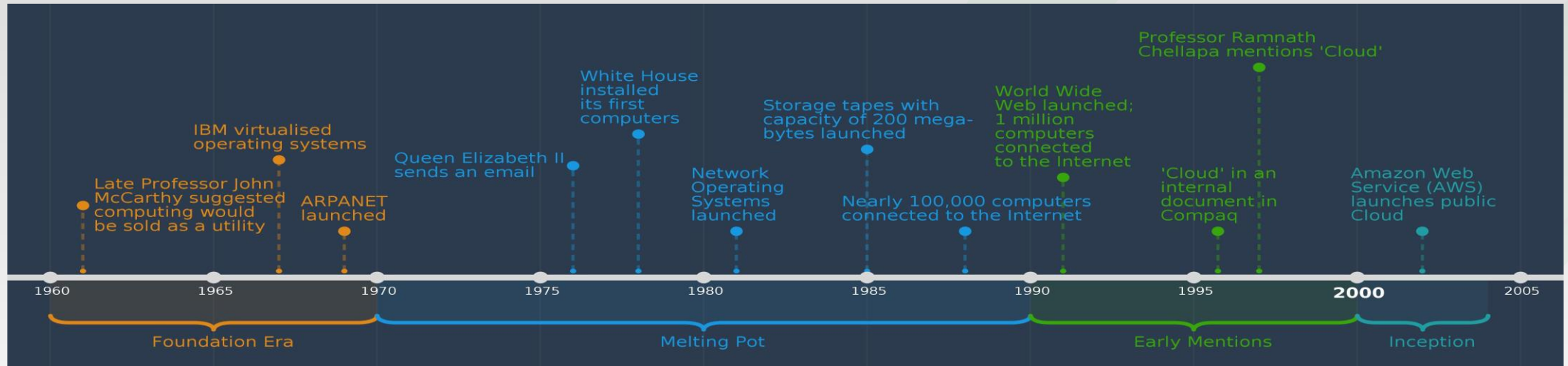
**Lack of Support**



# History of Cloud Computing



# Evolution of the Cloud Computing



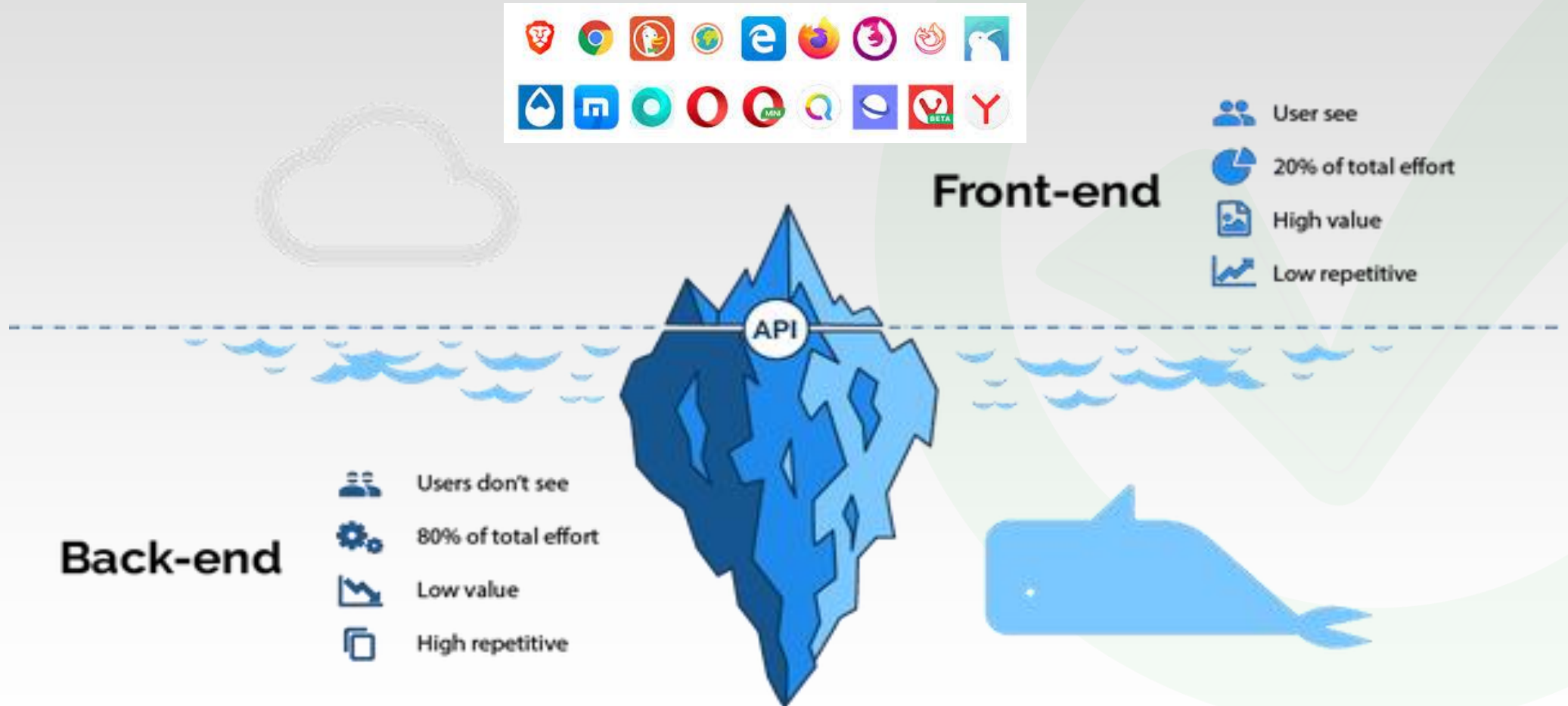


# Cloud Computing Architecture





# Cloud Computing Architecture

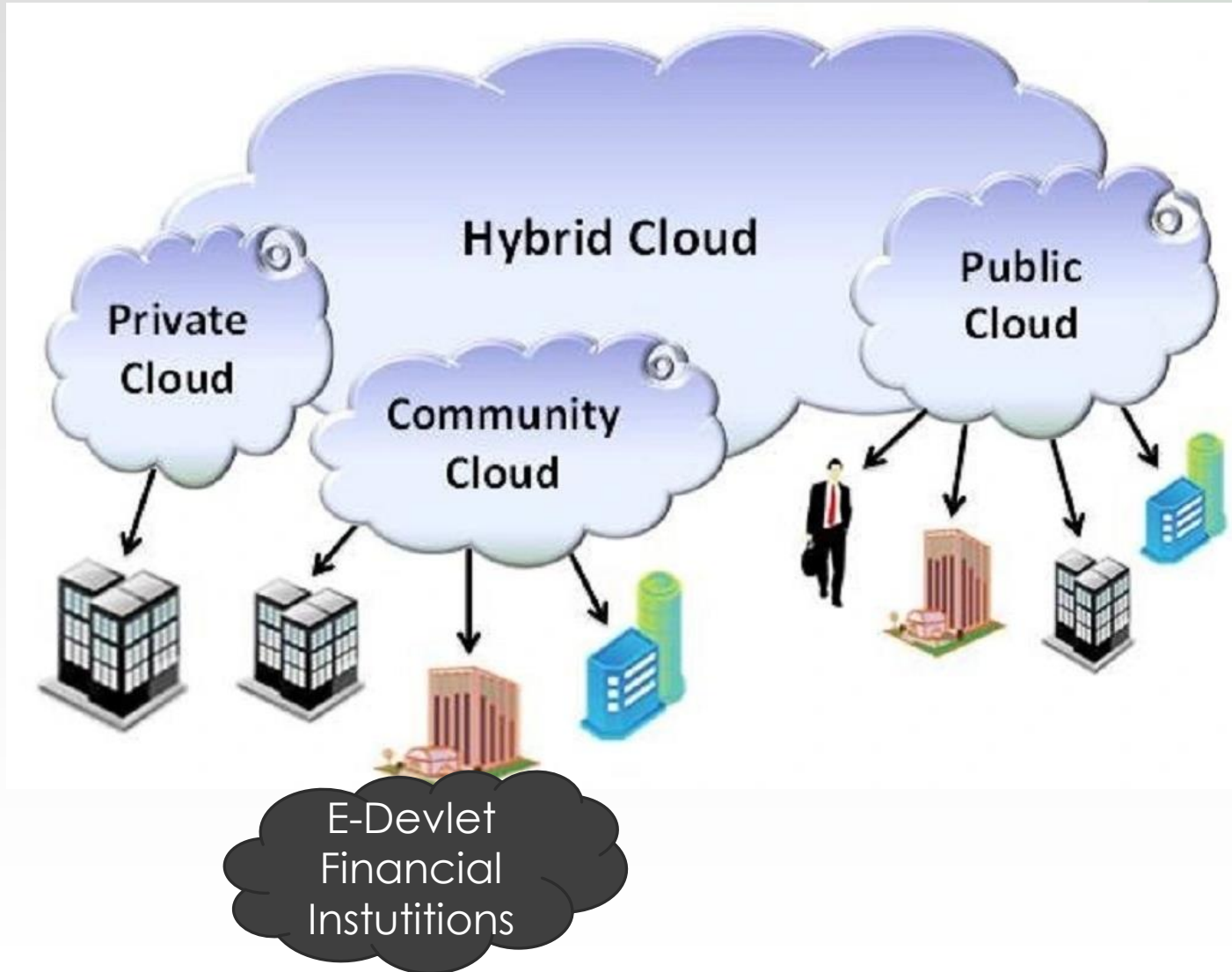




# Cloud Computing Deployment Models



# Cloud Computing Deployment Models



IBM, Google,  
Amazon,  
Microsoft



# Cloud Computing Service Models



# Cloud Computing Service Models

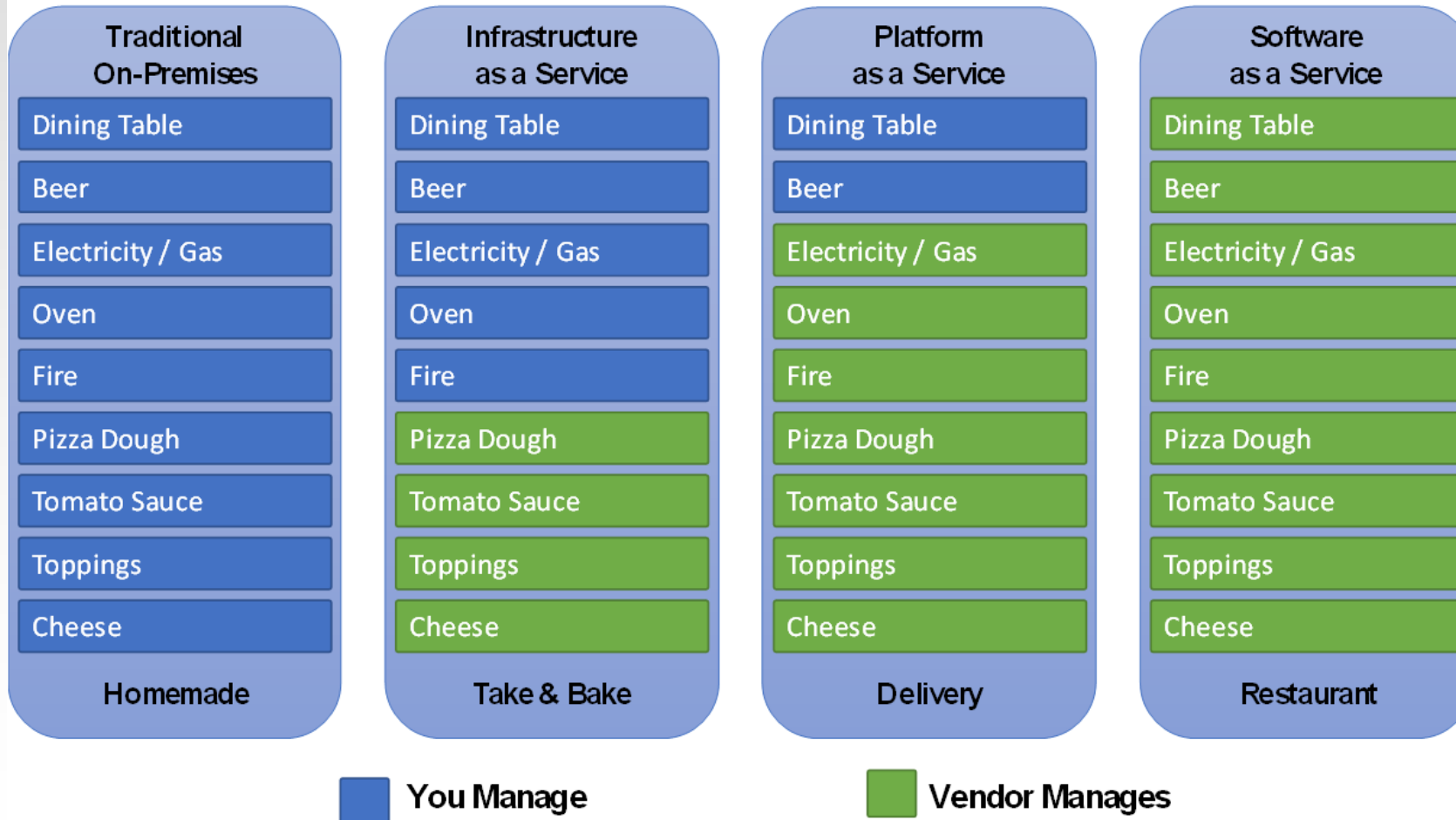
## Cloud Services Control Comparison

On premises	IaaS	PaaS	SaaS
Applications	Applications	Applications	Applications
Data	Data	Data	Data
Runtime	Runtime	Runtime	Runtime
Middleware	Middleware	Middleware	Middleware
O/S	O/S	O/S	O/S
Virtualization	Virtualization	Virtualization	Virtualization
Servers	Servers	Servers	Servers
Storage	Storage	Storage	Storage
Networking	Networking	Networking	Networking
You Manage		Provider Manages	

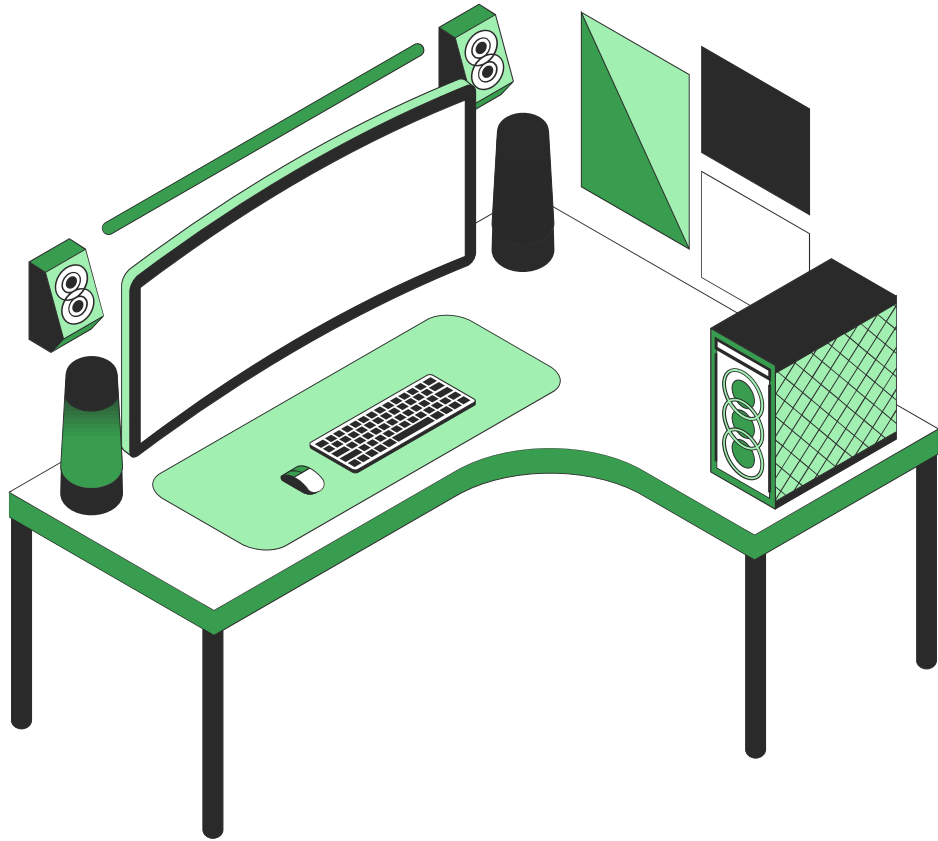


# Cloud Computing Service Models

## Pizza as a Service







# Do you have any questions?

Send it to us! We hope you learned something new.

