

# Why Cloud computing is a distributed system?

Distributed Systems

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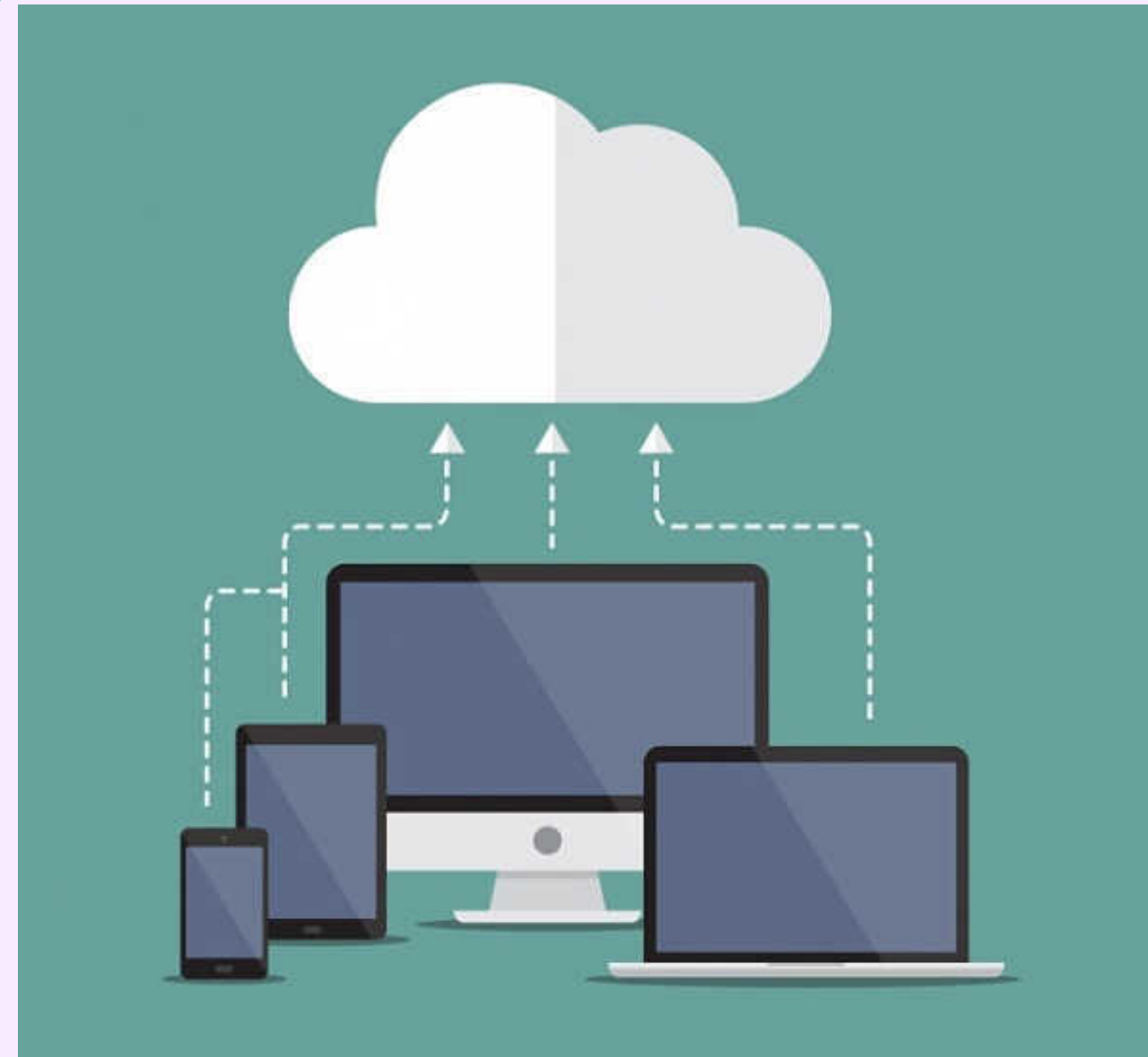
# 01. What is the cloud?



it's a term used to describe a global network of servers, each with a unique function.  
Is a vast network of remote servers around the globe which are hooked together and meant to operate as a single ecosystem.

## Cloud...

These servers are designed to either store and manage data, run applications, or deliver content or a service such as streaming videos, web mail, office productivity software, or social media.



# For Businesses

## Private Cloud

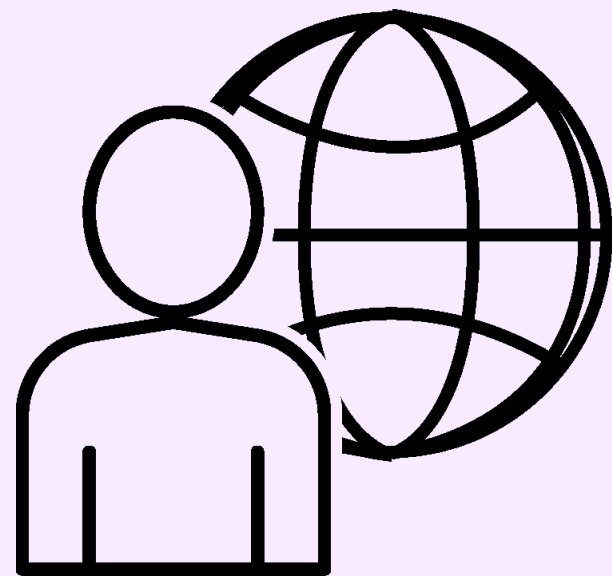
Isn't shared and offers services over a private internal network typically hosted on-premises.

## Public cloud

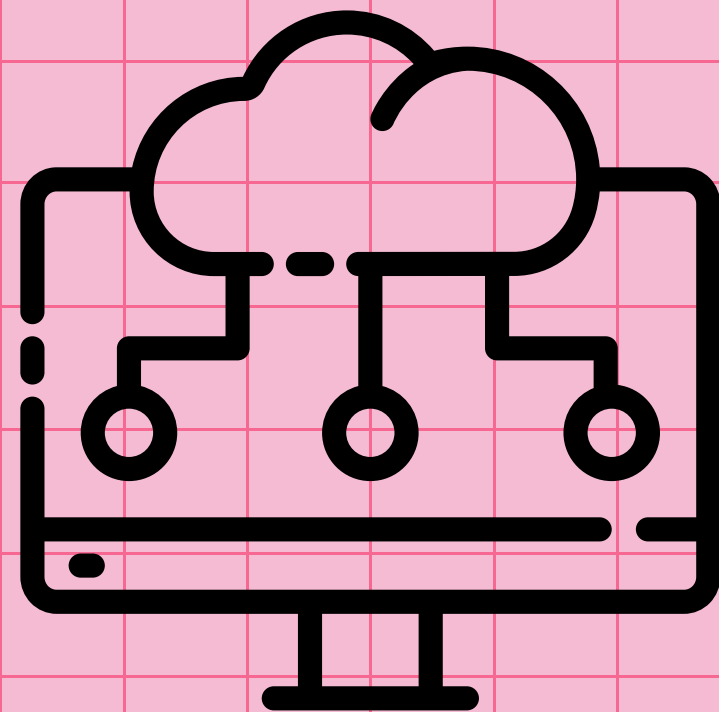
Shares resources and offers services to the public over the Internet.

## Hybrid cloud

Shares services between public and private clouds depending on their purpose, and a community cloud that shares resources only between organizations, such as with government institutions.

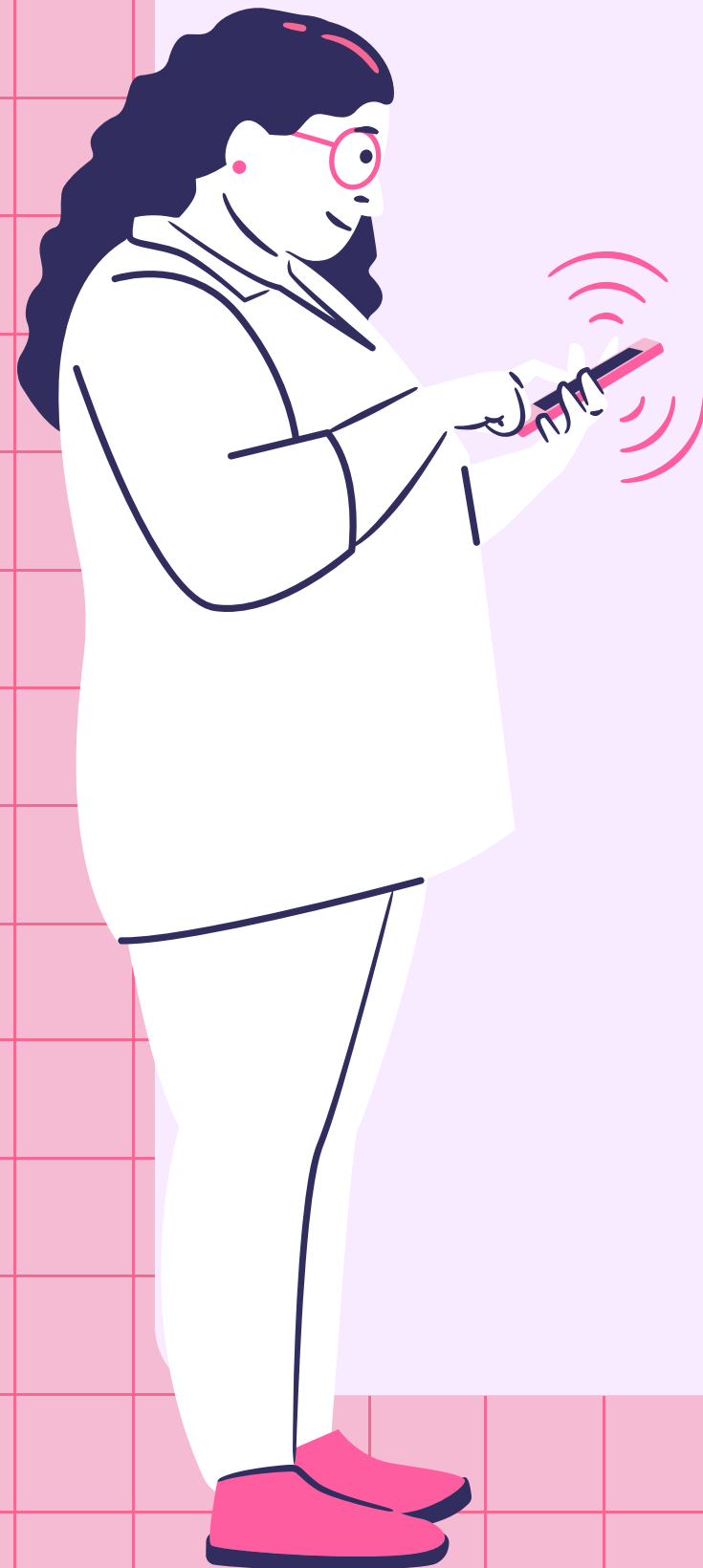


## 02. What is Distributed Cloud Computing?



Is the distribution of public cloud services across multiple geographic locations. the operations continue to remain under the purview of the primary public cloud provider.

# Some application requirements are:



## Locational

help enhance responsiveness and performance in delivery of applications

## Security and Control of Data

To make sure that an enterprise has the ability to retain specific data and processes in its private cloud, within its integrated public cloud.

## Regulatory

There are some countries where regulations stipulate that data must not leave the country

## Redundancy

To provide redundancy that goes beyond local, regional, and national site redundancy, which helps in mitigating large-scale outages.

## So... Why Cloud computing is a distributed system?

Because Distributed cloud computing splits one task across multiple computers at different locations—all of which are networked. Each computer will complete an aspect of the task, allowing for the task to be completed faster.

Cloud computing can help by allowing remote network access to hardware and software. Also, is where all necessary resources are accessed and delivered via the internet, whereas distributed cloud computing is a sharing of resources between multiple systems through a network.



# Use cases of Distributed Cloud Computing

## Intelligent Transport

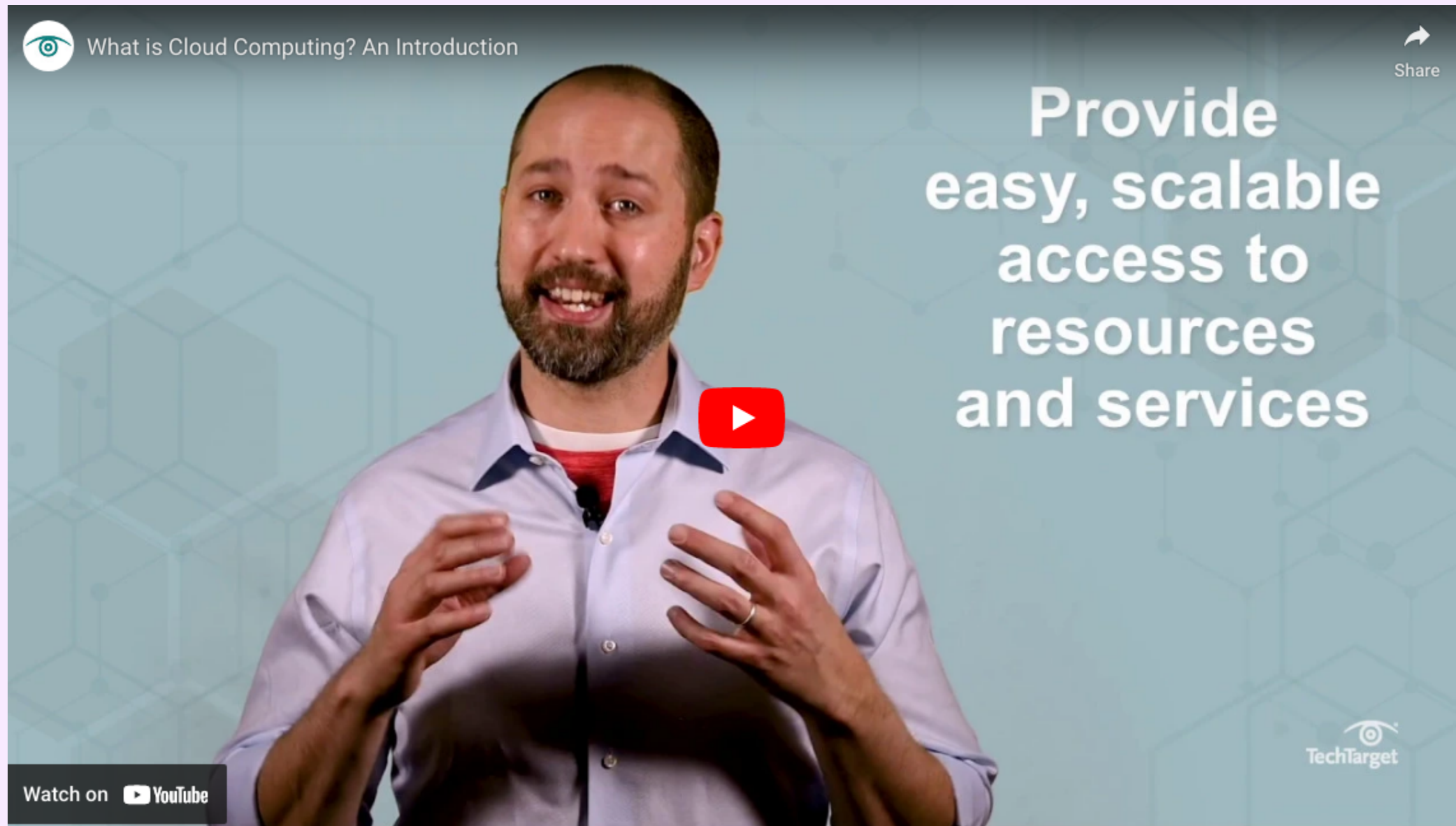
Long-distance autonomously driven trucks can process data they receive from the dashboard and road sensors.

## Intelligent Caching

A particular over-the-top (OTT) video service provider utilizes a central cloud to transcode and format videos for use on a range of devices over multiple networks.







Comparación



# THANKS!

