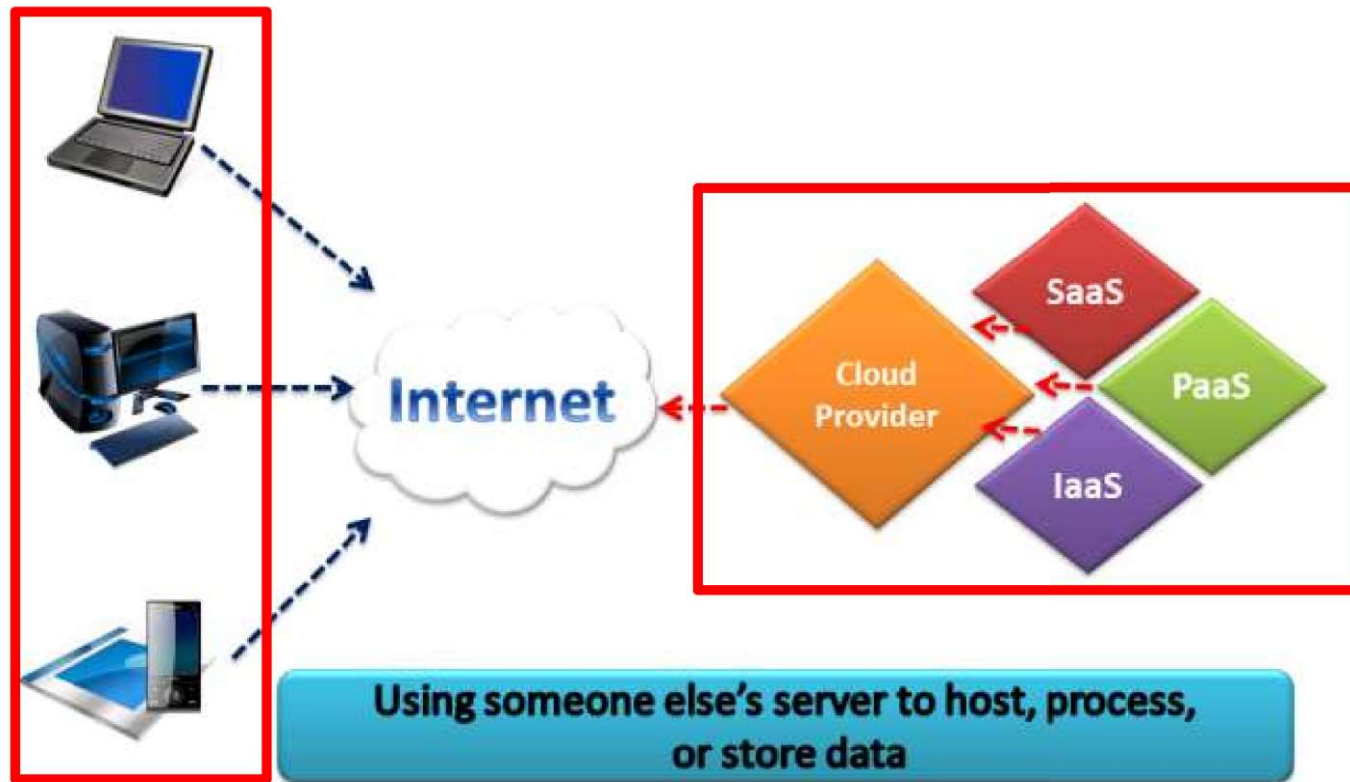


# Cloud Computing

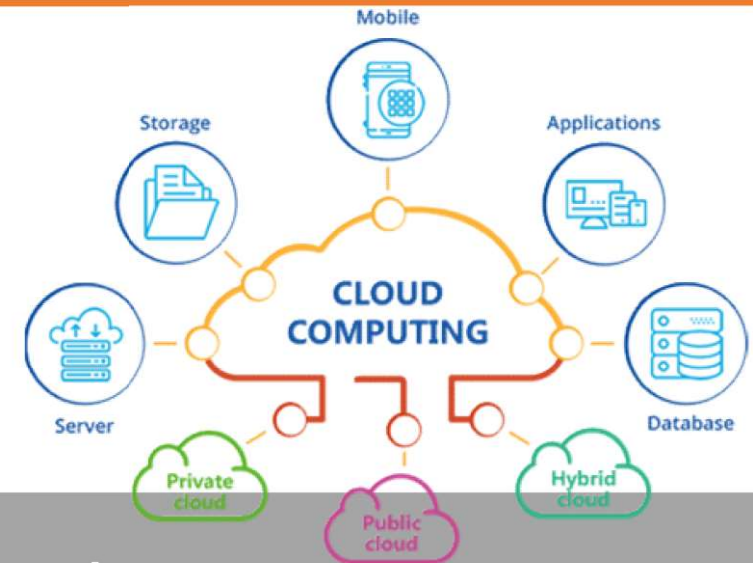
# What is Cloud?



# Cloud Computing

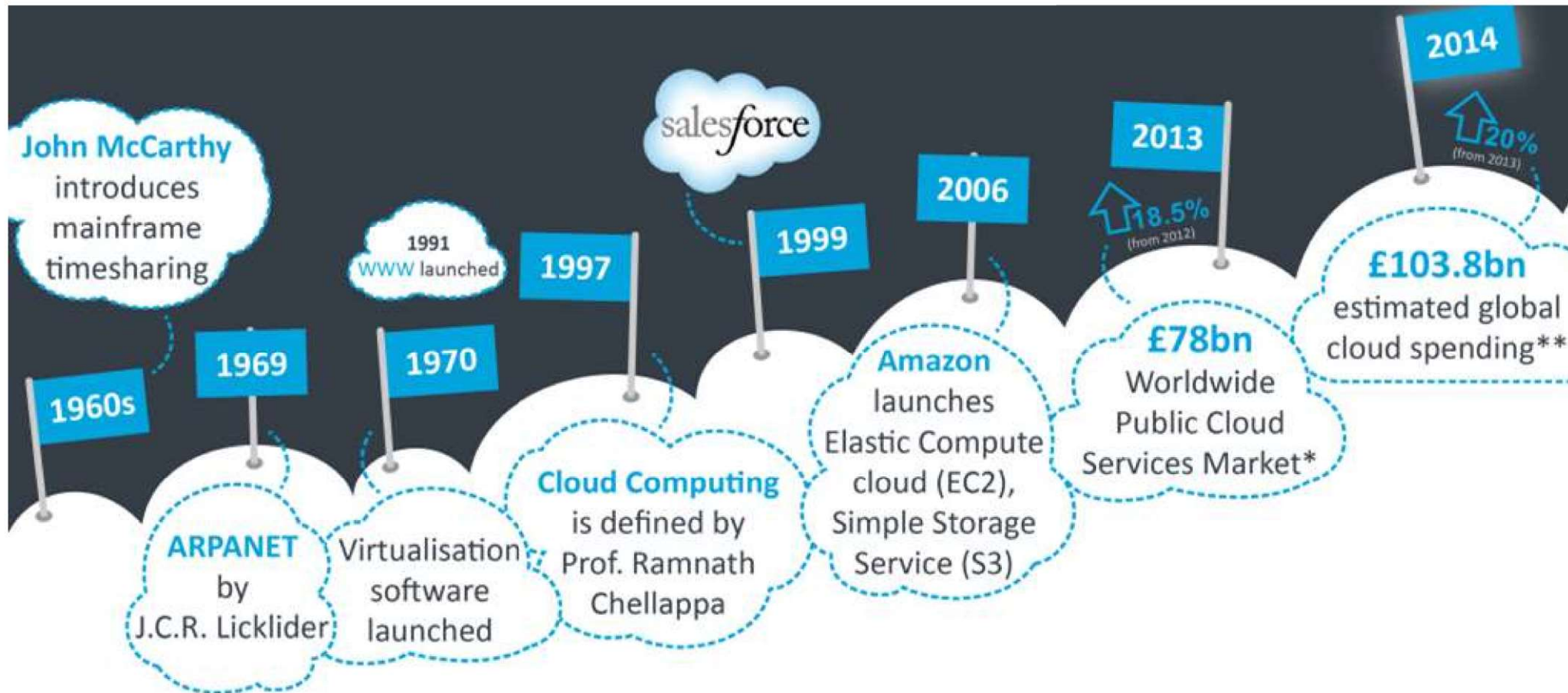
Enables network access to computing resources:

- Networks,
- Servers,
- Storage,
- Applications
- Services



Resources can be rapidly provisioned

# History of Cloud Computing



# Essential Characteristics

## On-demand self-service

- Consumer can provision resources as needed automatically
- No human interaction

## Broad network access

- Are available over network

## Resource pooling

- The provider's resources are pooled to serve multiple consumers

## Measured Service

- Resource usage can be monitored and controlled providing transparency.
- Used for billing

## Rapid elasticity

- Scale rapidly outward and inward

# Common Characteristics

Massive Scale

Resilient Computing

Geographic Distribution

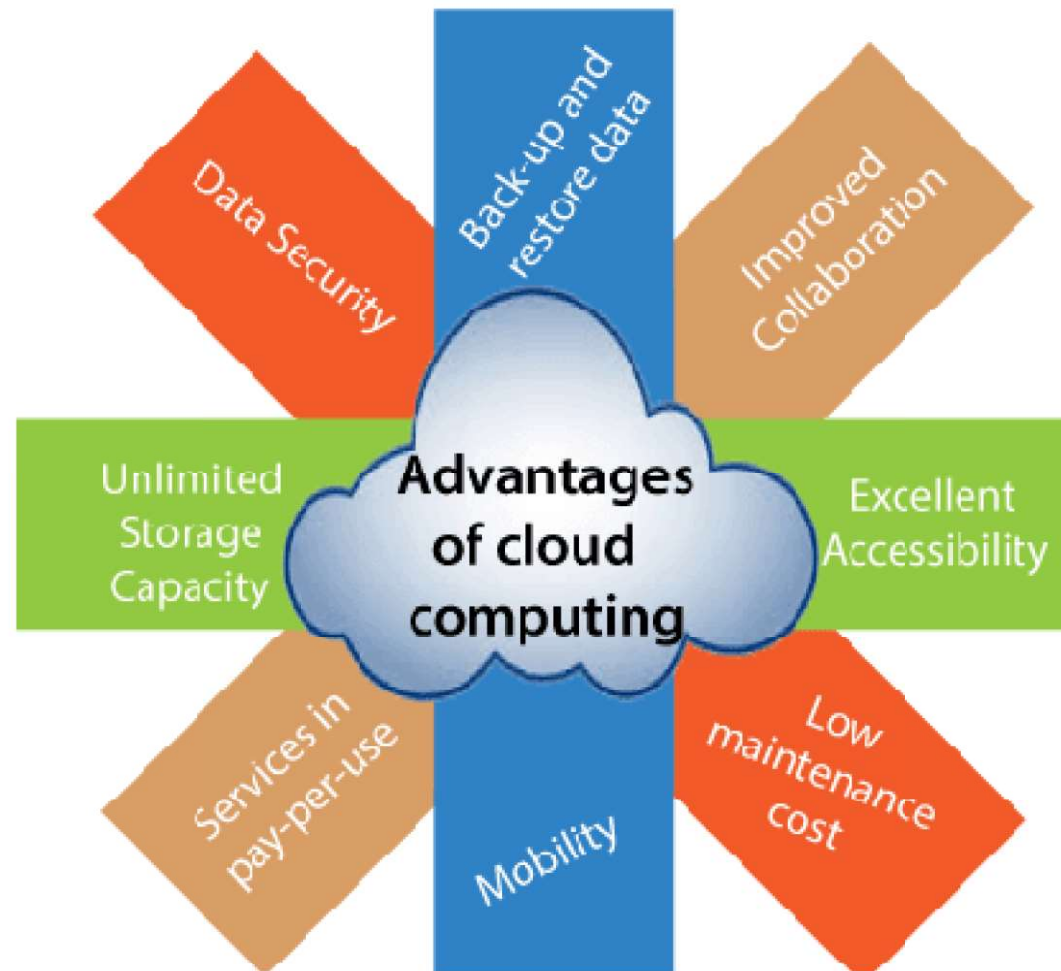
Virtualization

Service Orientation

Low Cost Software

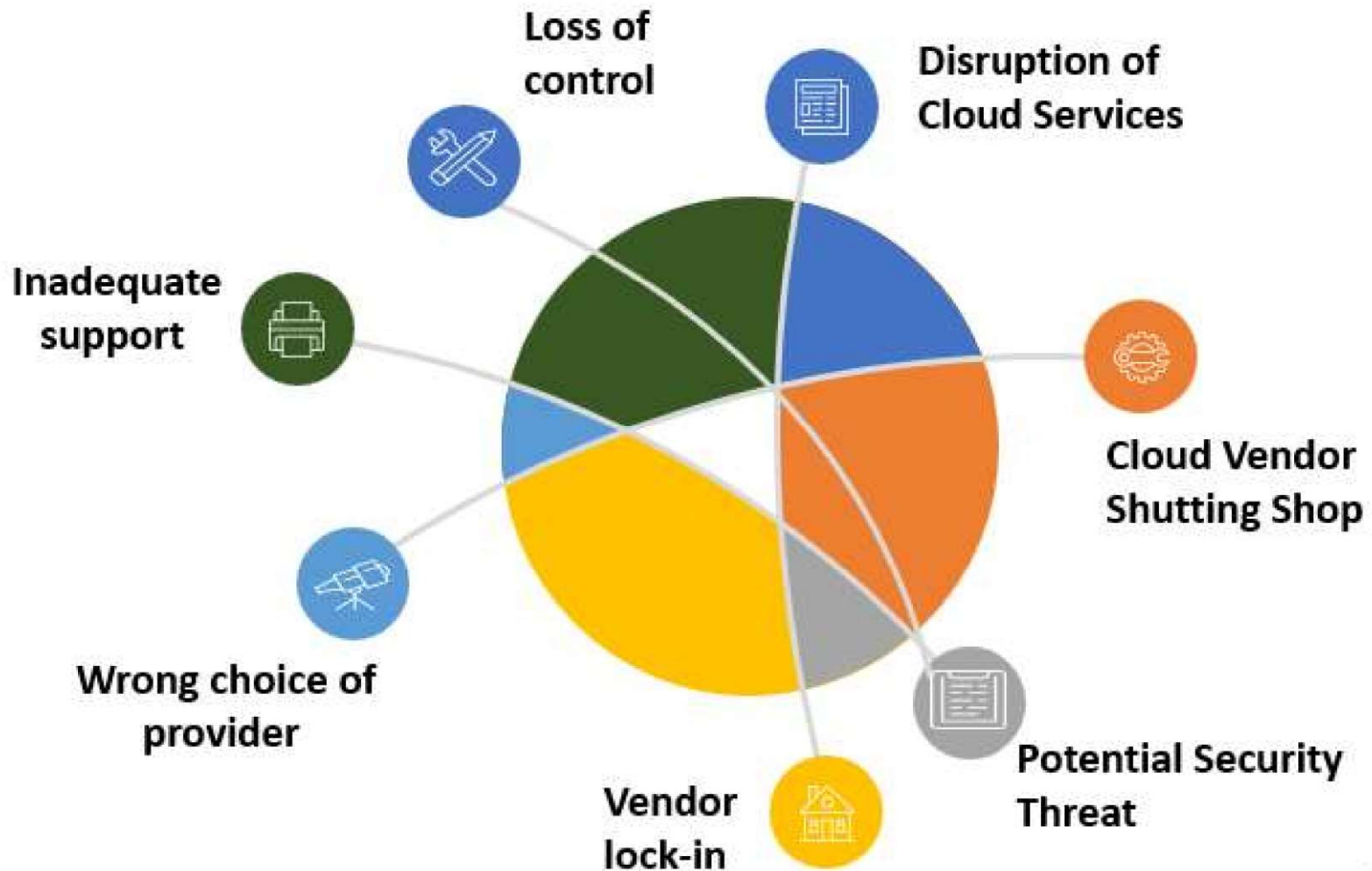
Advanced Security

# Cloud Computing Advantages





# Cloud Computing Disadvantages





# Cloud Services Models

## Software as a Service (SaaS)

- Google Drive and Google Docs

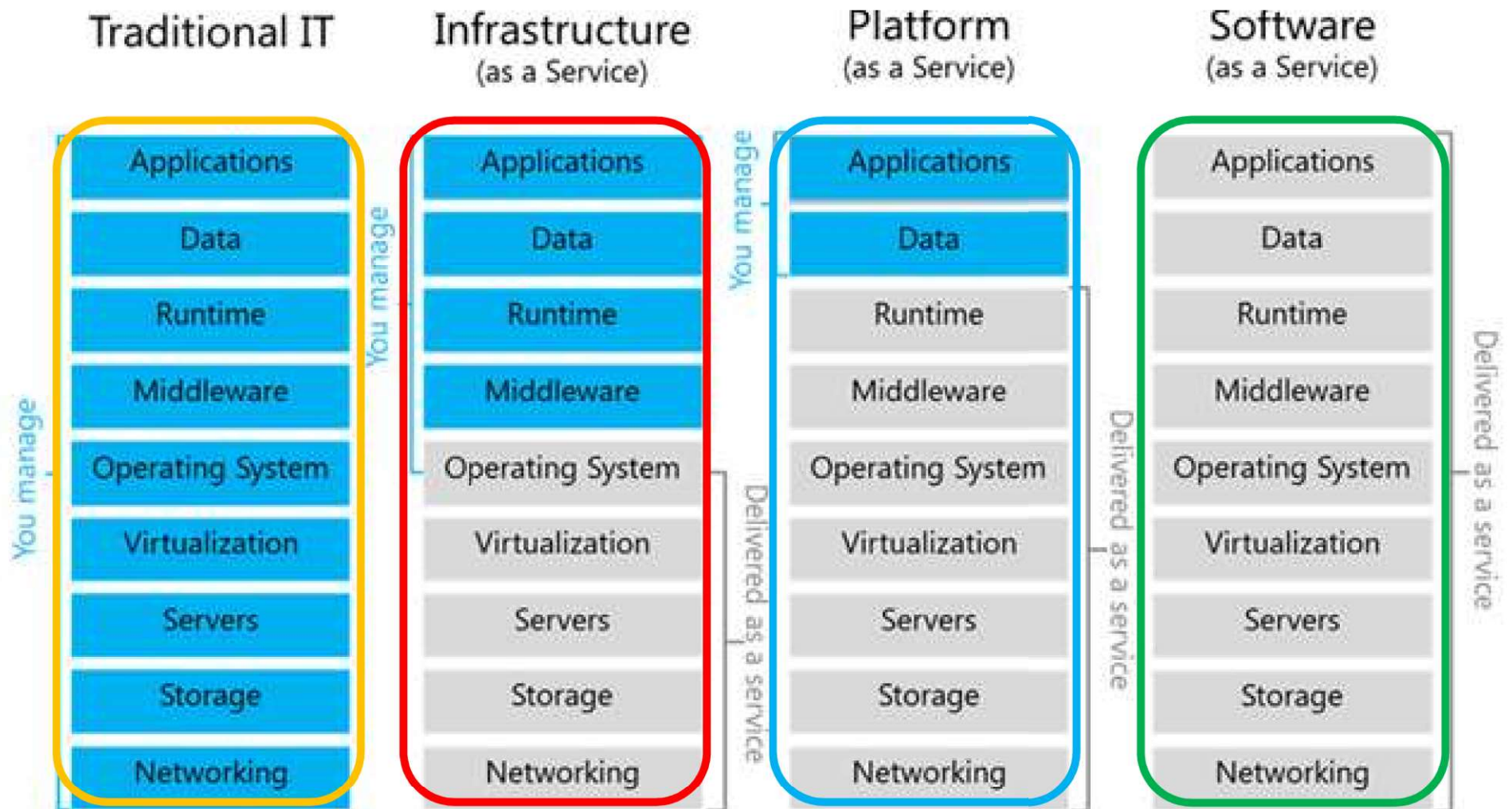
## Cloud Infrastructure as a Service (IaaS)

- DigitalOcean
- Azure
- AWS

## Platform as a Service (PaaS)

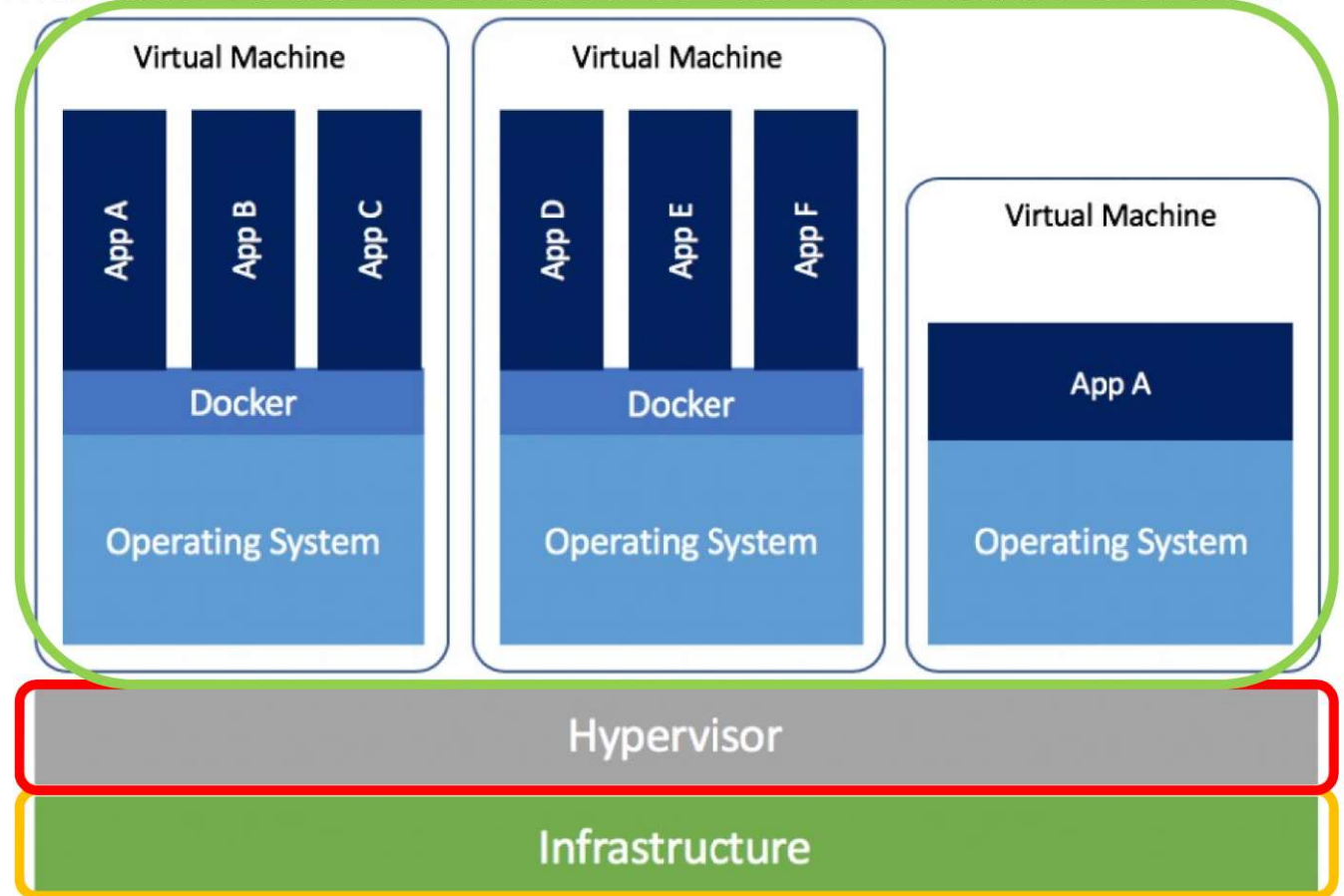
- The consumer does not manage or control the underlying cloud infrastructure:
  - network, servers,
  - operating systems, or storage
- Has control over the deployed applications and
- Configuration settings

# Cloud Services Models

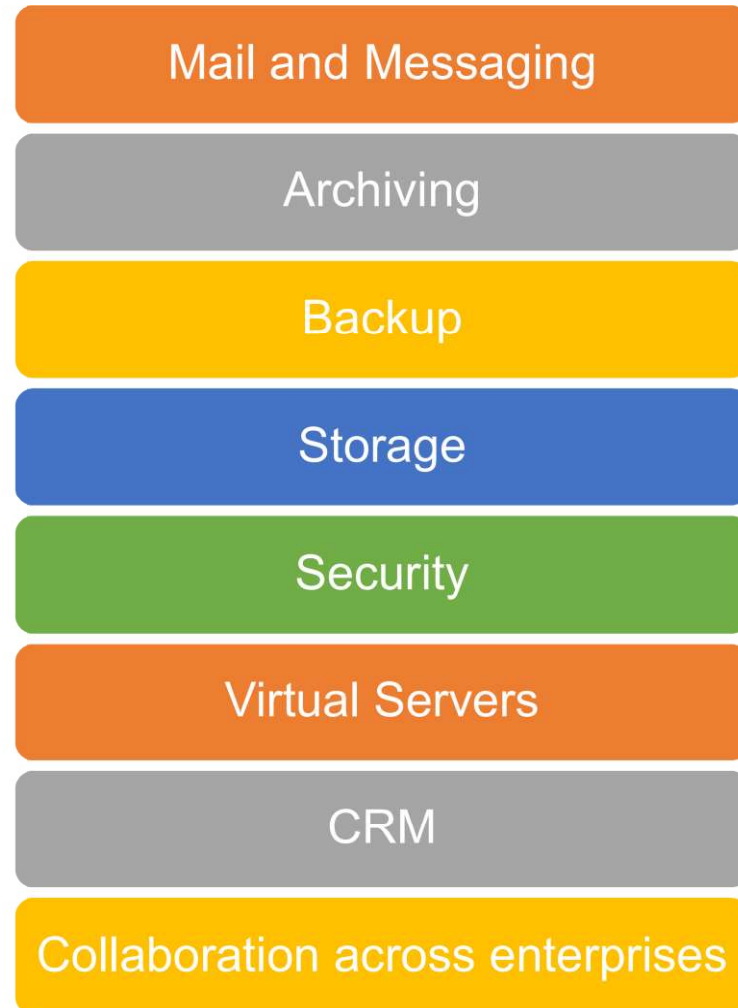


# Virtual Machines

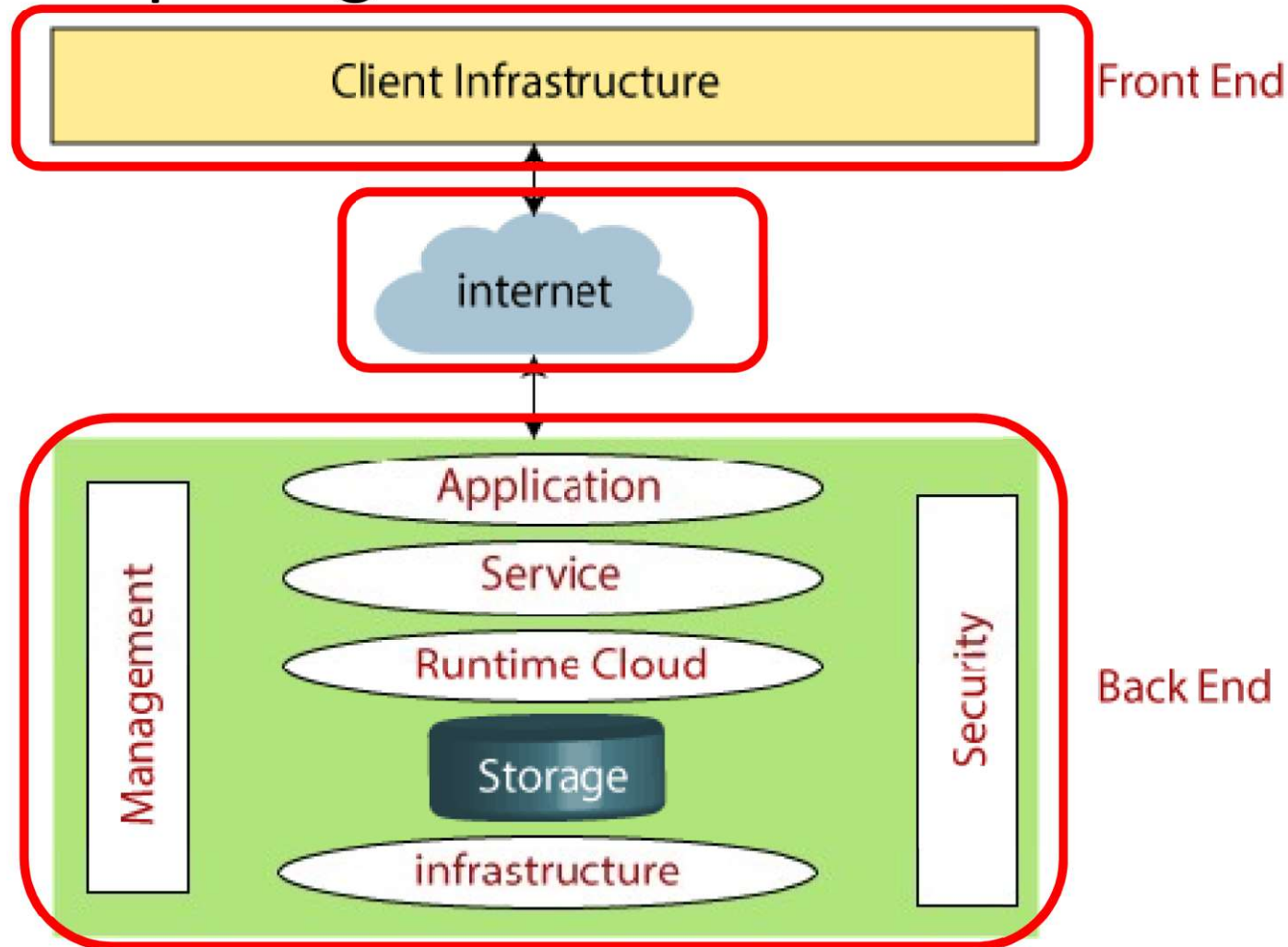
- VM technology allows multiple virtual machines to run on a single physical machine



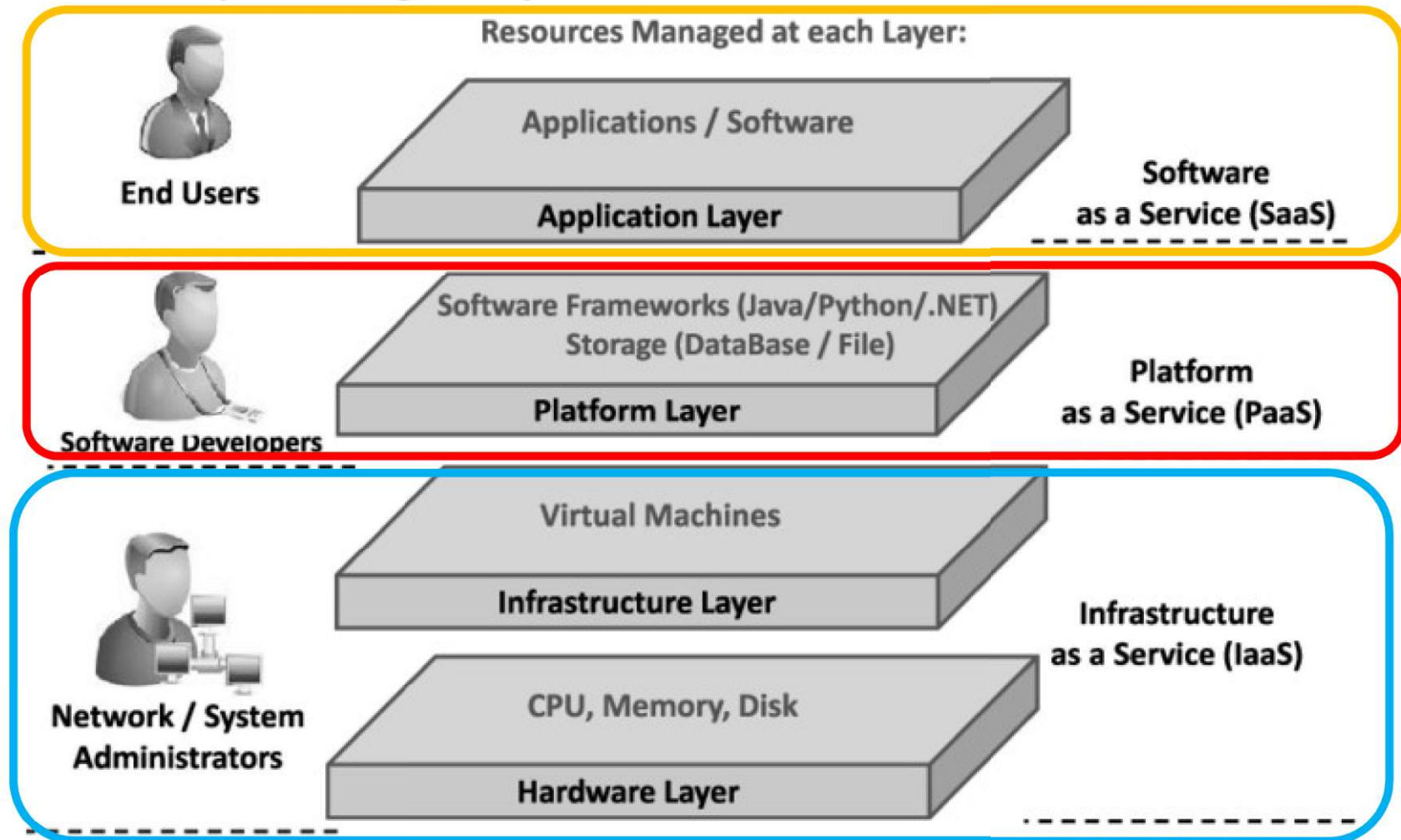
# Top cloud applications



# Cloud Computing Architecture

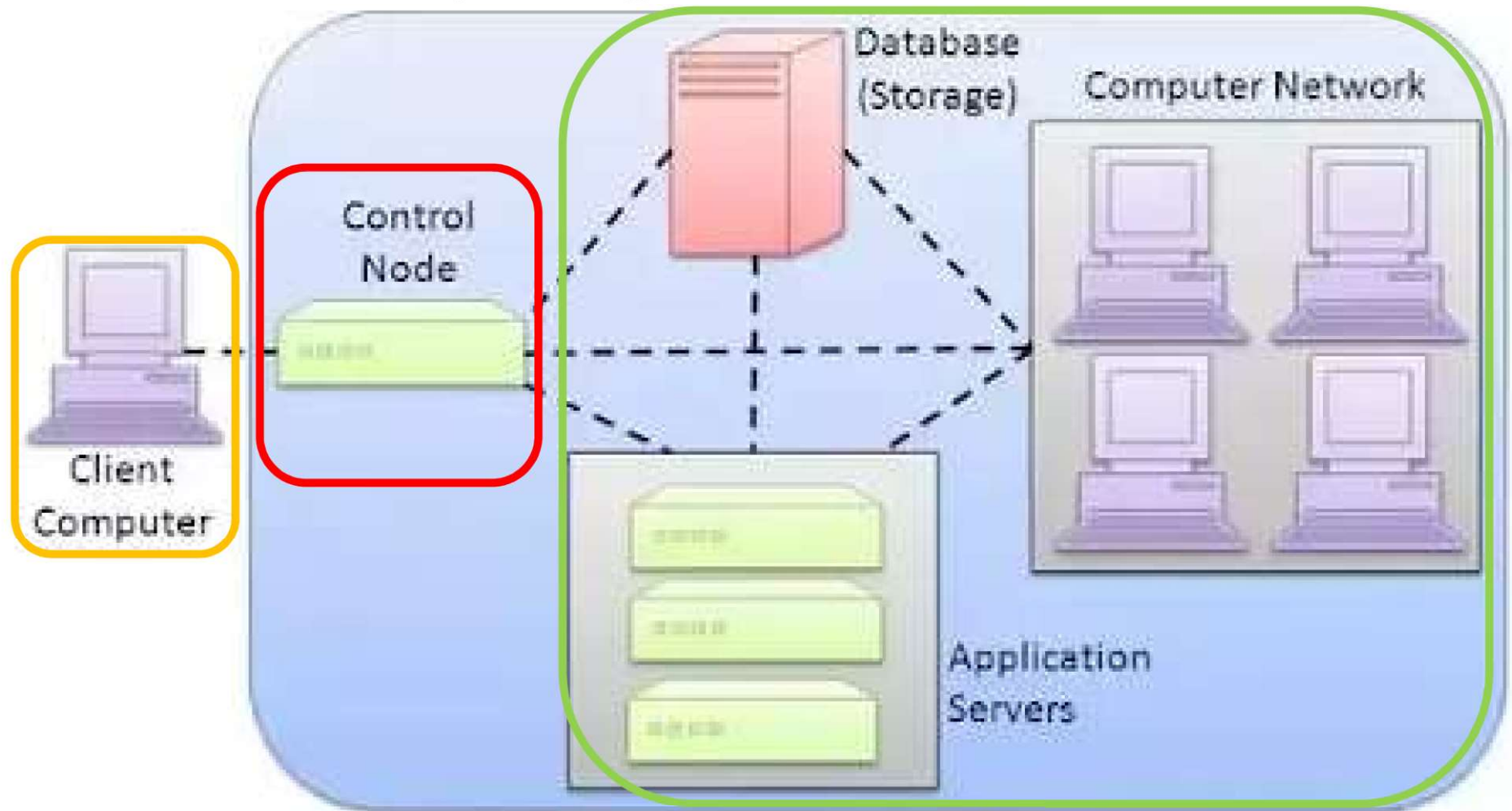


# Cloud Computing Layers





# How Cloud Computing Works?



**Thanks**