

# Cloud Computing and Its Benefits



# Agenda:

- **Introduction**
- **What is cloud computing?**
- **History of cloud computing.**
- **Why cloud computing?**
- **Architecture of cloud computing.**
- **Components of cloud computing.**
- **Cloud models.**
- **Sovereign cloud.**
- **Advantages and disadvantages of cloud computing.**
- **Sohobcom.**

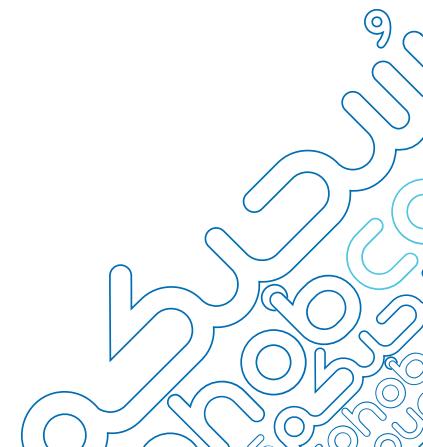
## ● **Introduction:**

- **Cloud computing has transformed how technology is delivered and consumed.**
- **It enables access to computing resources on demand over the internet.**
- **This presentation will explore its evolution, components, architecture, and impact.**

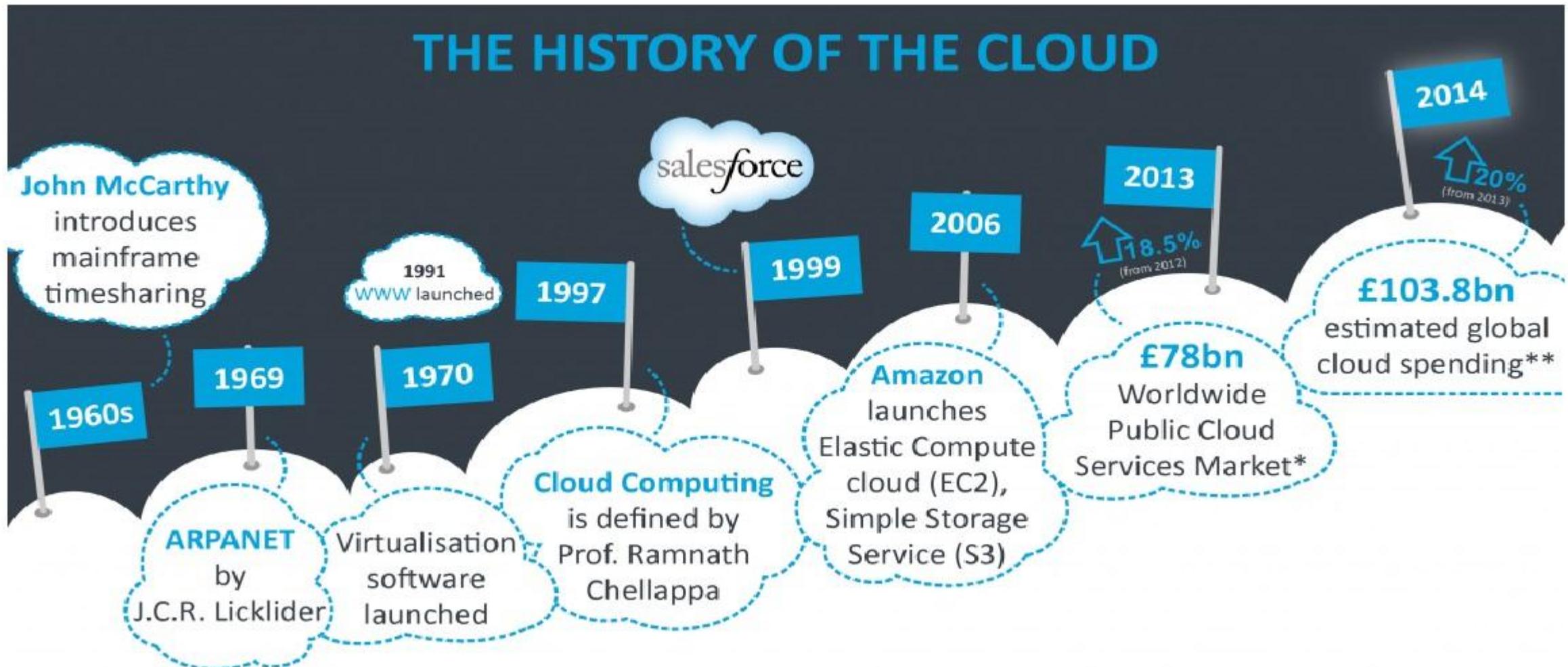


# What is Cloud Computing?

- Cloud computing is the delivery of computing services—such as servers, storage, databases, networking, software, analytics, and intelligence—over the internet ("the cloud") to offer faster innovation, flexible resources, and economies of scale.

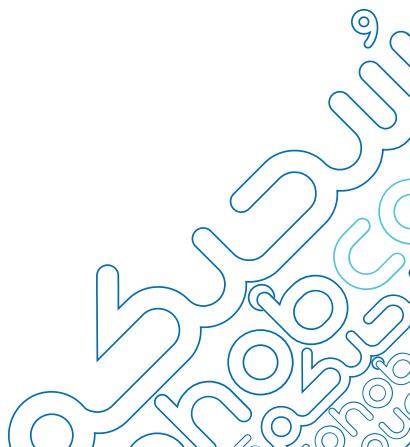


# History of Cloud Computing:



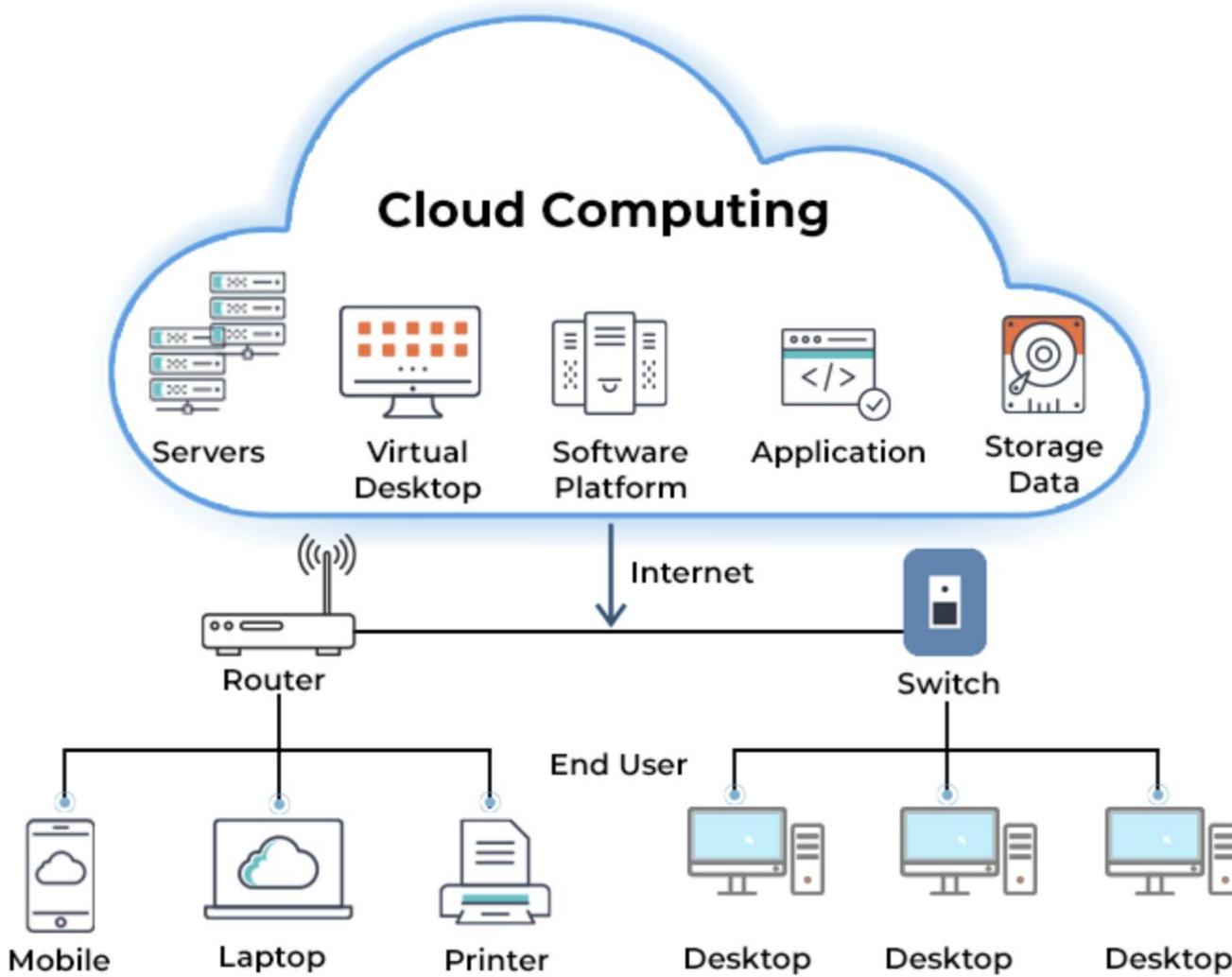
## ● Why Cloud Computing? (Benefits )

- Drive down costs.
- Accessibility.
- Productivity.
- Scalability.
- Access to automatic updates.
- Business Continuity (Backup & Recovery).
- Pay structure (e.g., Pay-as-you-go models).



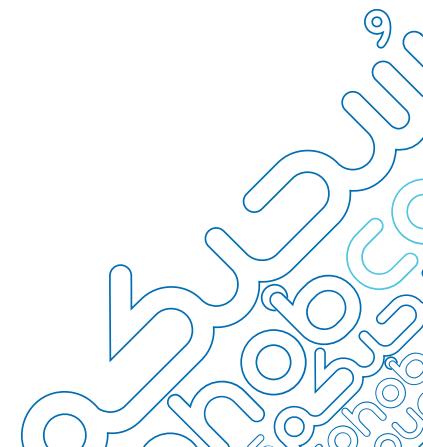
# Cloud Architecture:

## (How cloud systems are designed and how the components interact?)

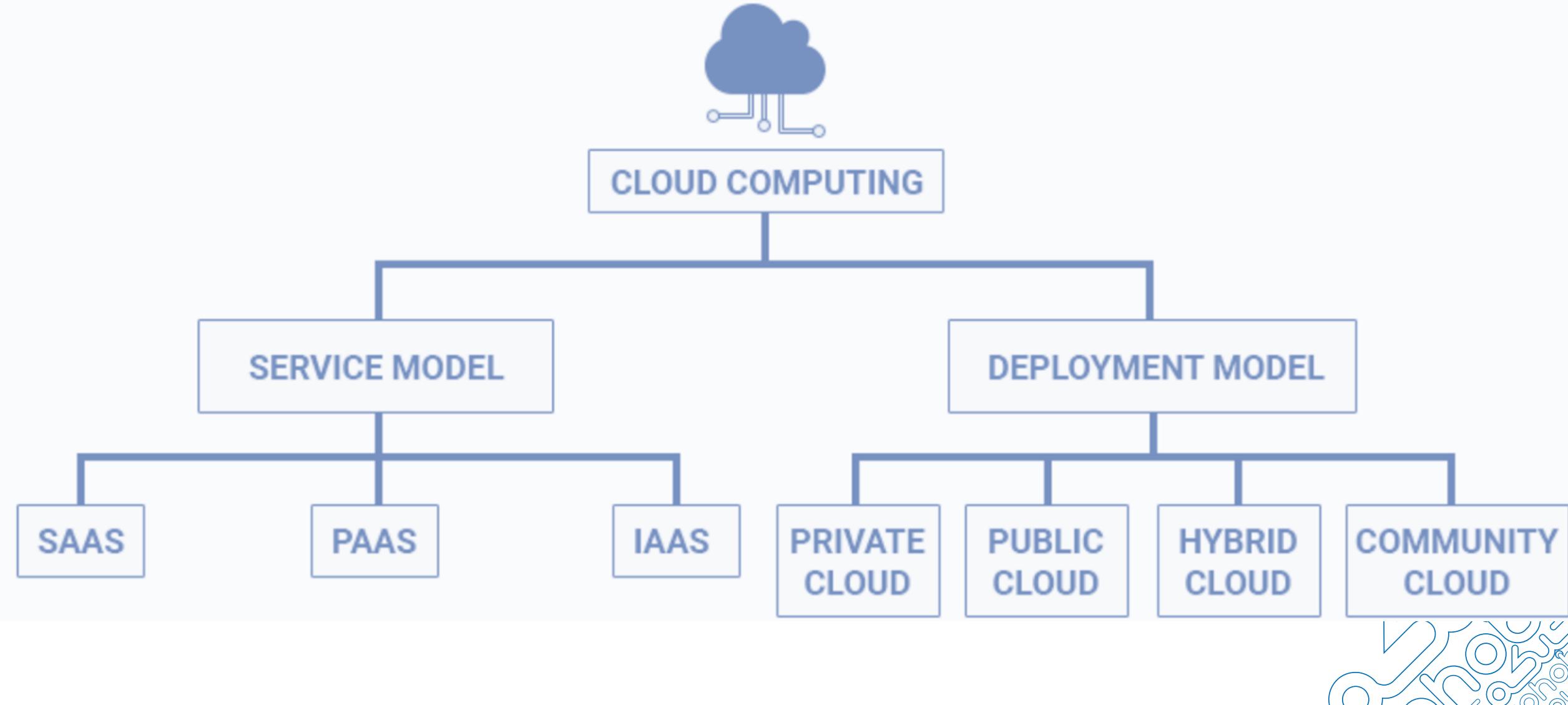


## ● Components of Cloud Computing: (What the cloud is made of—the essential parts and technologies)

- Client Devices.
- Data Centers.
- Servers.
- Storage Systems.
- Virtualization.
- Cloud Services.
- APIs & Interfaces.

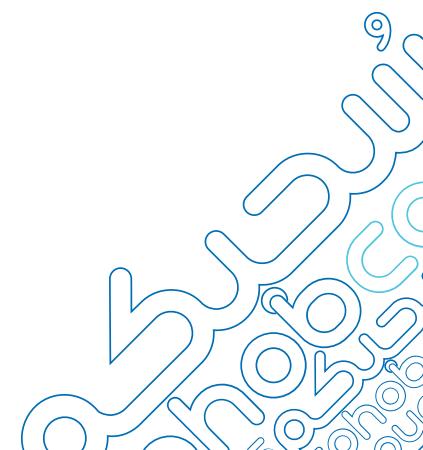


# Cloud Models:



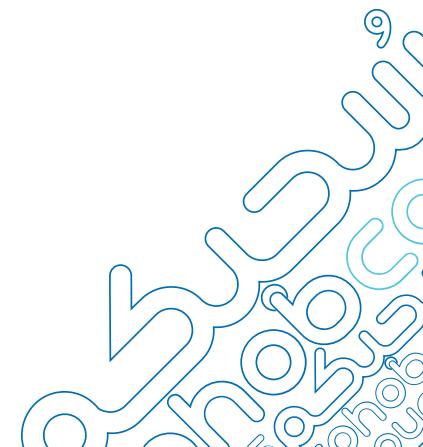
## Cloud Models Based on Services:

- **SaaS – Software as a Service.**
- **PaaS – Platform as a Service.**
- **IaaS – Infrastructure as a Service.**

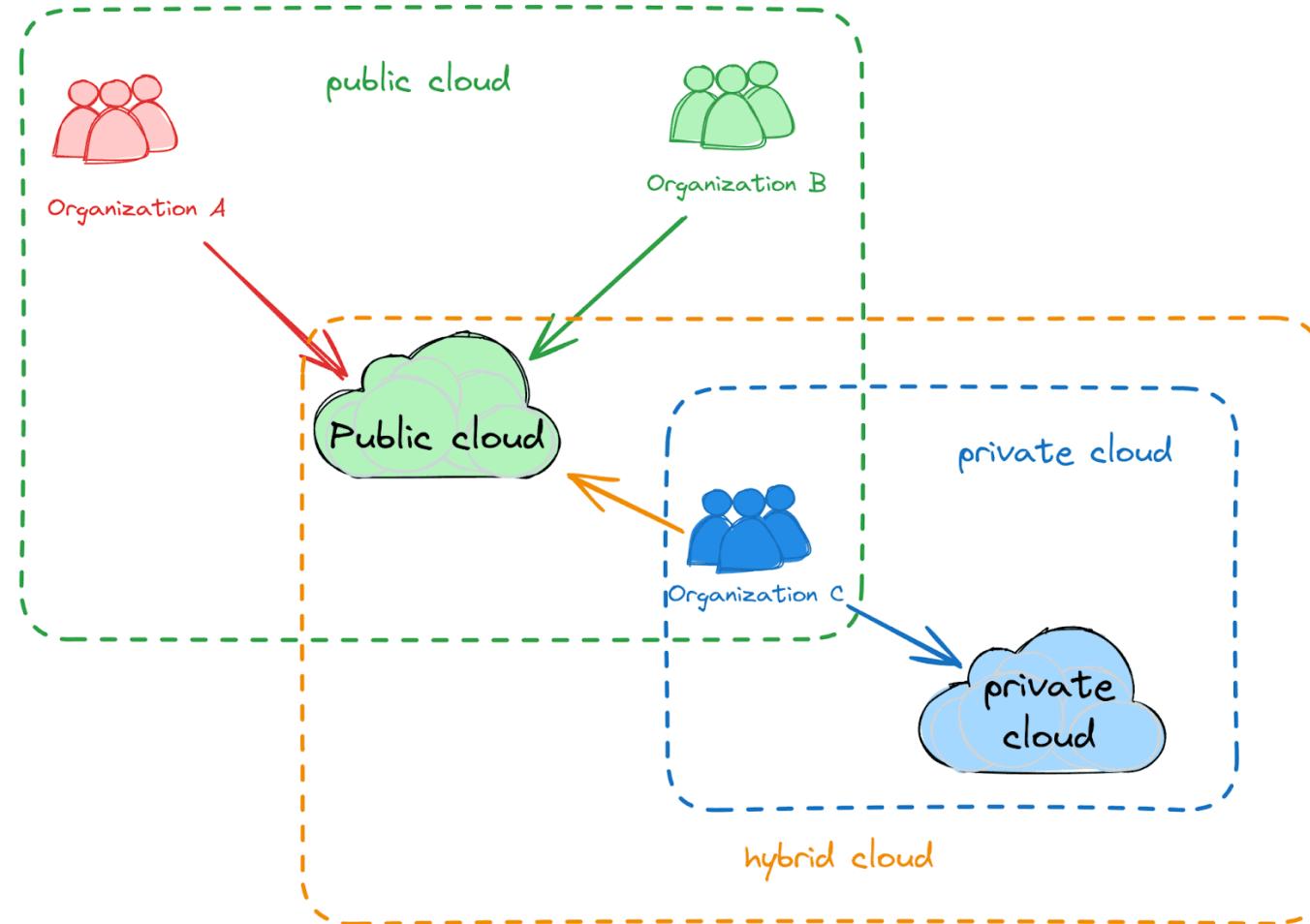


## Cloud Models Based on Deployment:

- **Public Cloud:** Services offered over the public internet.
- **Private Cloud:** Dedicated infrastructure for one organization.
- **Hybrid Cloud:** Mix of public and private clouds.
- **Community Cloud:** Services are shared by several organizations with common concerns.

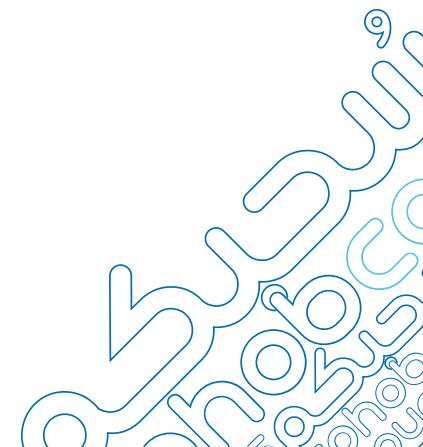


# Cloud Models Based on Deployment:

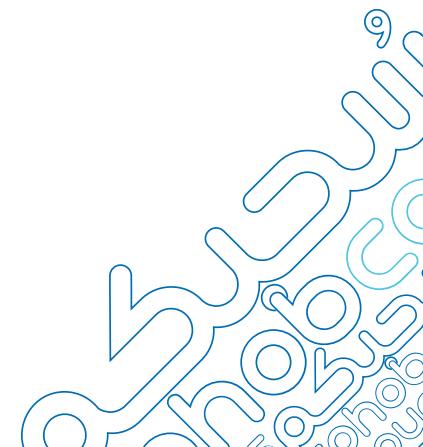
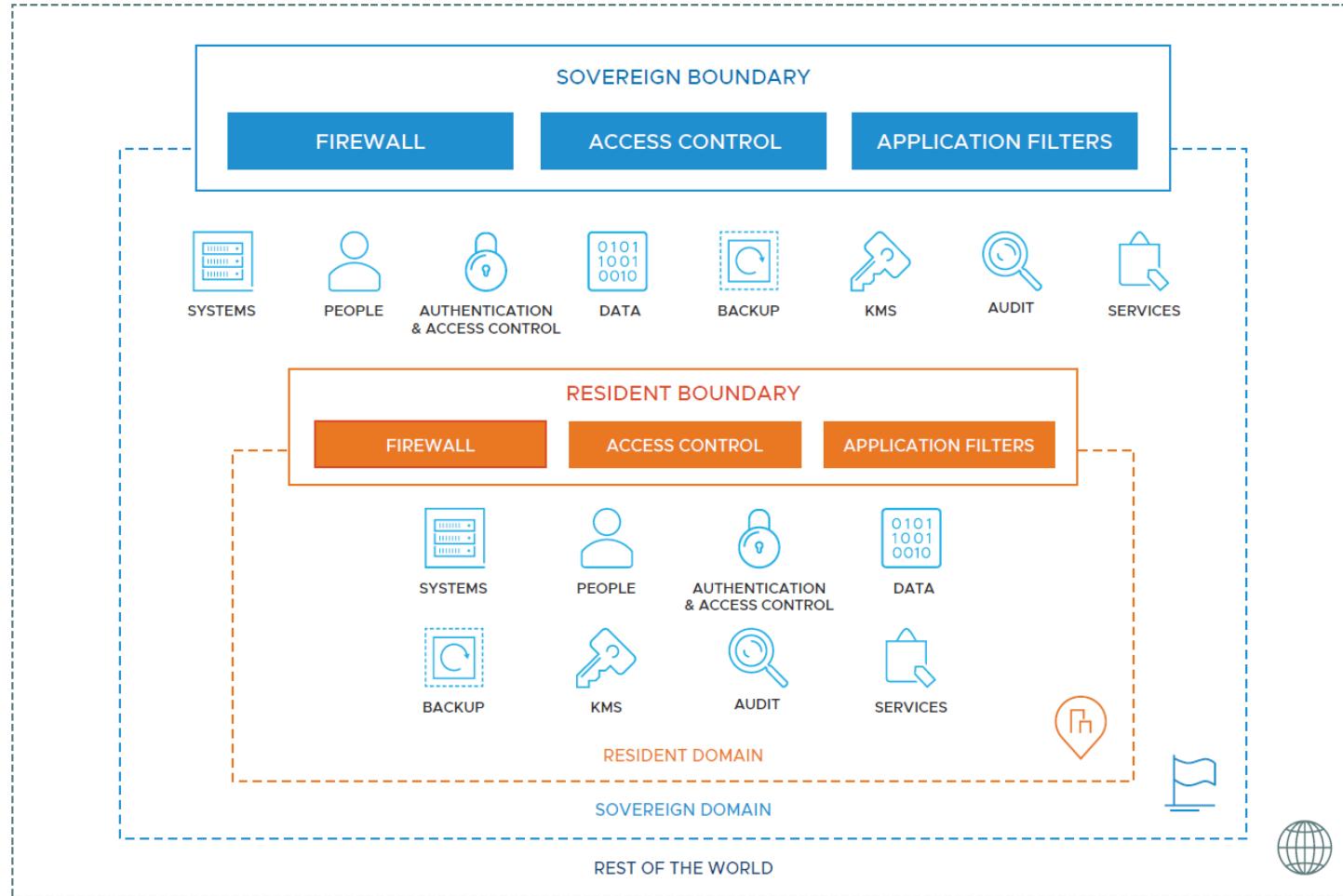


## ● **Sovereign Cloud:**

- **Sovereign cloud ensures data is subject to the laws and governance of the country where it is collected.**
- **It addresses data residency, privacy, and compliance regulations.**
- **Important for sectors like government, finance, and healthcare.**



# ● Sovereign Cloud:



# >Main Domains in Sovereign Cloud

## Sovereign Domain

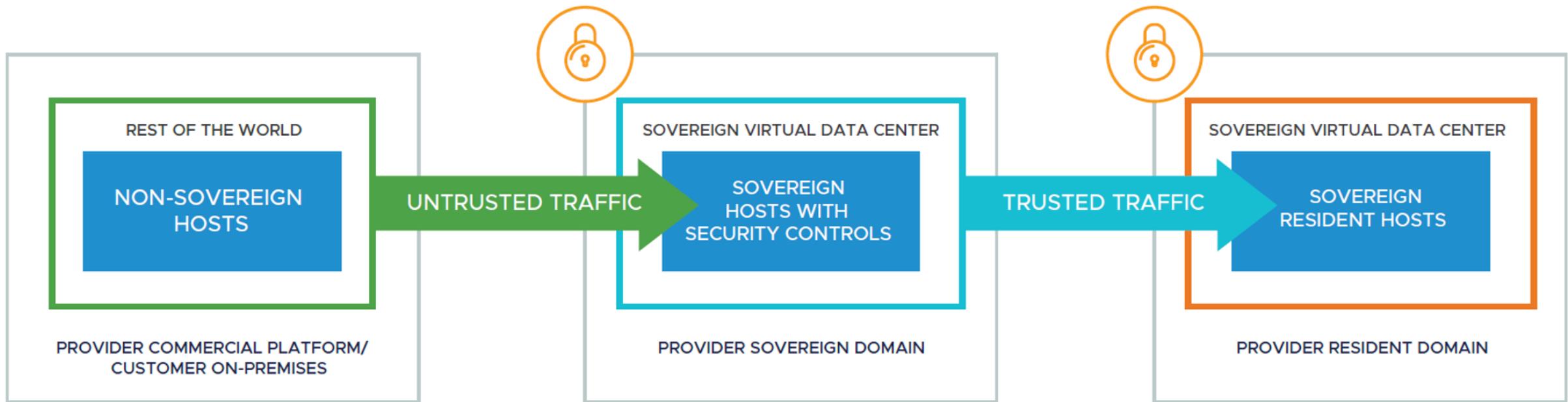
- This is the domain that can interact with the outside world, but under strict and controlled security policies. Its primary purpose is to control data flow and govern how interactions with external systems occur, based on approved security standards.  
All outgoing communication from this domain is heavily monitored to ensure data protection and prevent unauthorized access.

## Resident Domain

- This domain is completely isolated and not allowed to interact directly with the outside world. If any external communication is required, it must pass through the Sovereign Domain. This ensures that data within the Resident Domain remains fully protected, isolated, and under strict control, while still allowing controlled interaction through a secure gateway.

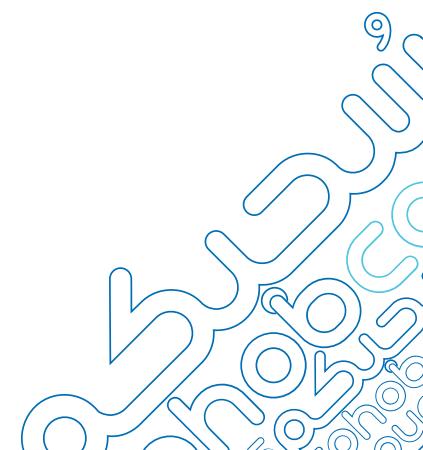


# Main Domains in Sovereign Cloud



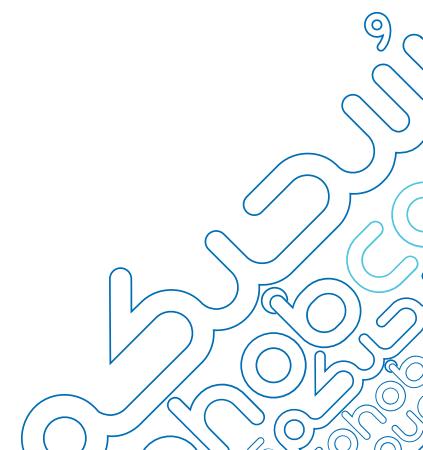
## Advantages of Cloud Computing:

- Cost-efficiency, scalability, and flexibility.
- Accessibility and collaboration.
- Automated maintenance and disaster recovery.



## Disadvantages of Cloud Computing:

- Security and privacy concerns.
- Downtime risks.
- Vendor lock-in.



# Sohobcom

Sohobcom is Yemen's national cloud service provider. It is offering a multi-tenant cloud platform for managing virtualized resources tailored for private and hybrid clouds, specifically leveraging VMware-based technologies.

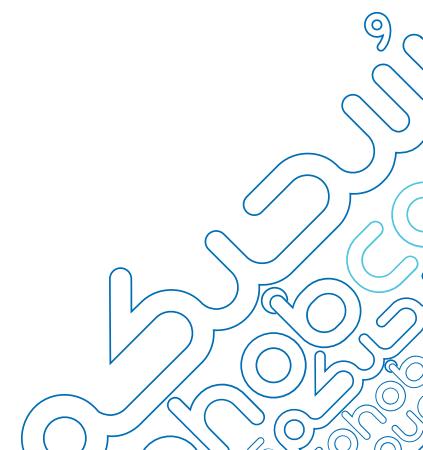
## Key Features:

- **Resource Management:**
  - Centralized management of virtual machines (VMs), networks, and storage.
- **Virtualization Technology:**
  - Utilizing VMware vCloud Director for efficient resource management.
- **Cutting-Edge VMware Products:**
  - We aim to be the first company to integrate VMware products, including NSX, vRealize Orchestrator, VMware Virtual Cloud Director, VMware Site Recovery Manager, and more.
- **Advanced Security:**
  - Implementation of Cisco ACI with the latest firewall rules to ensure robust security.



# Sohobcom Services

- **ERP as a Service.**
- **Email as a Service.**
- **Firewall as a Service.**
- **Disaster Recovery as a Service.**
- **Backup as a Service.**
- **Co-location as a Service.**
- **Virtual Data Center (VDC) as a Service.**
- **Cloud Virtual Private Server as a Service.**
- **Cloud Web Hosting as a Service.**
- **Domain Name as a Service.**



Thank You  
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