Cloud Service Models – 6W's

Sarathkumar MC

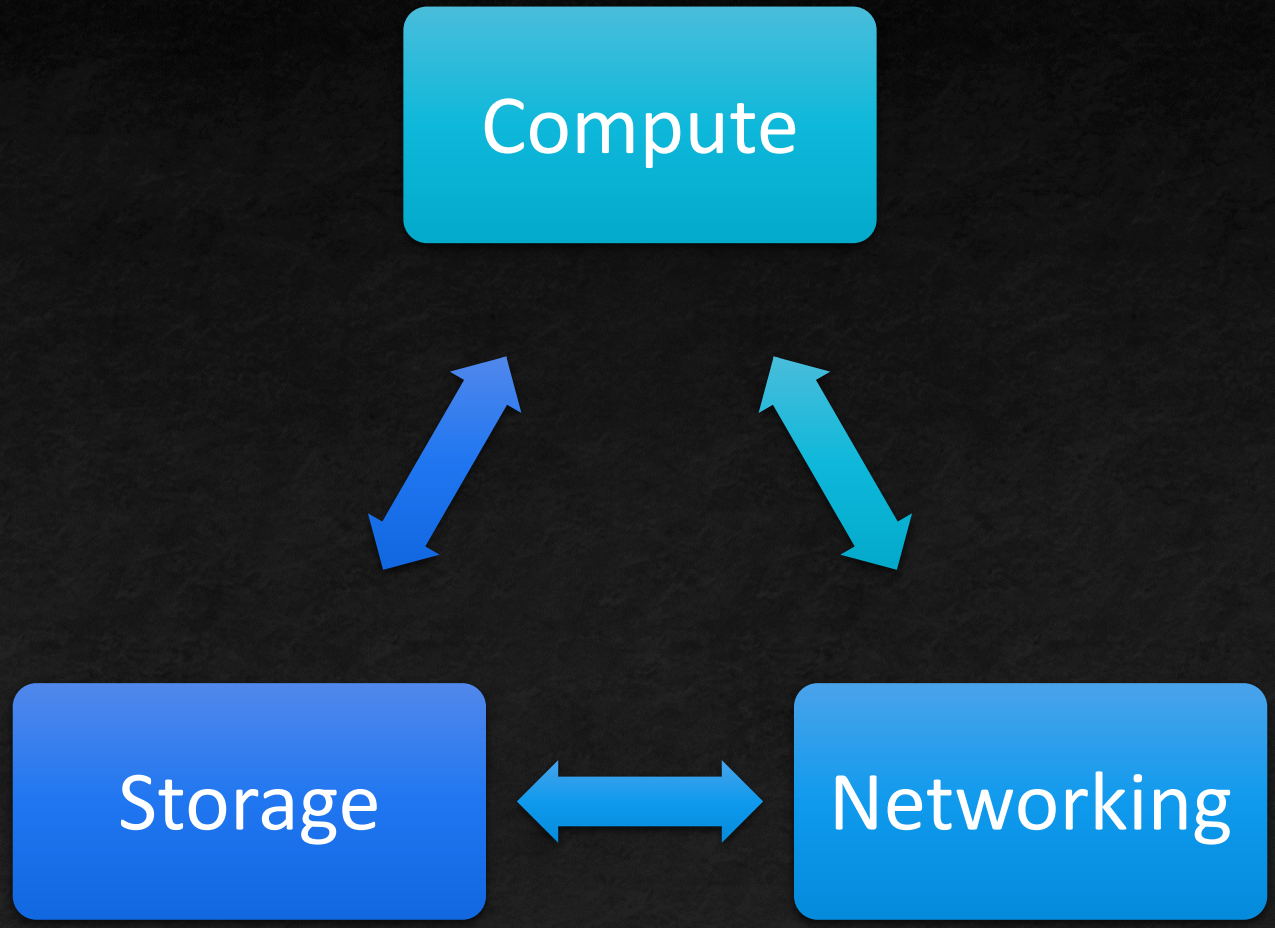
IAM

- Senior Consultant @Infosys
- Specialized in Cloud Security
- 7x Azure Certified
- linkedin.com/in/mcsarathkumar

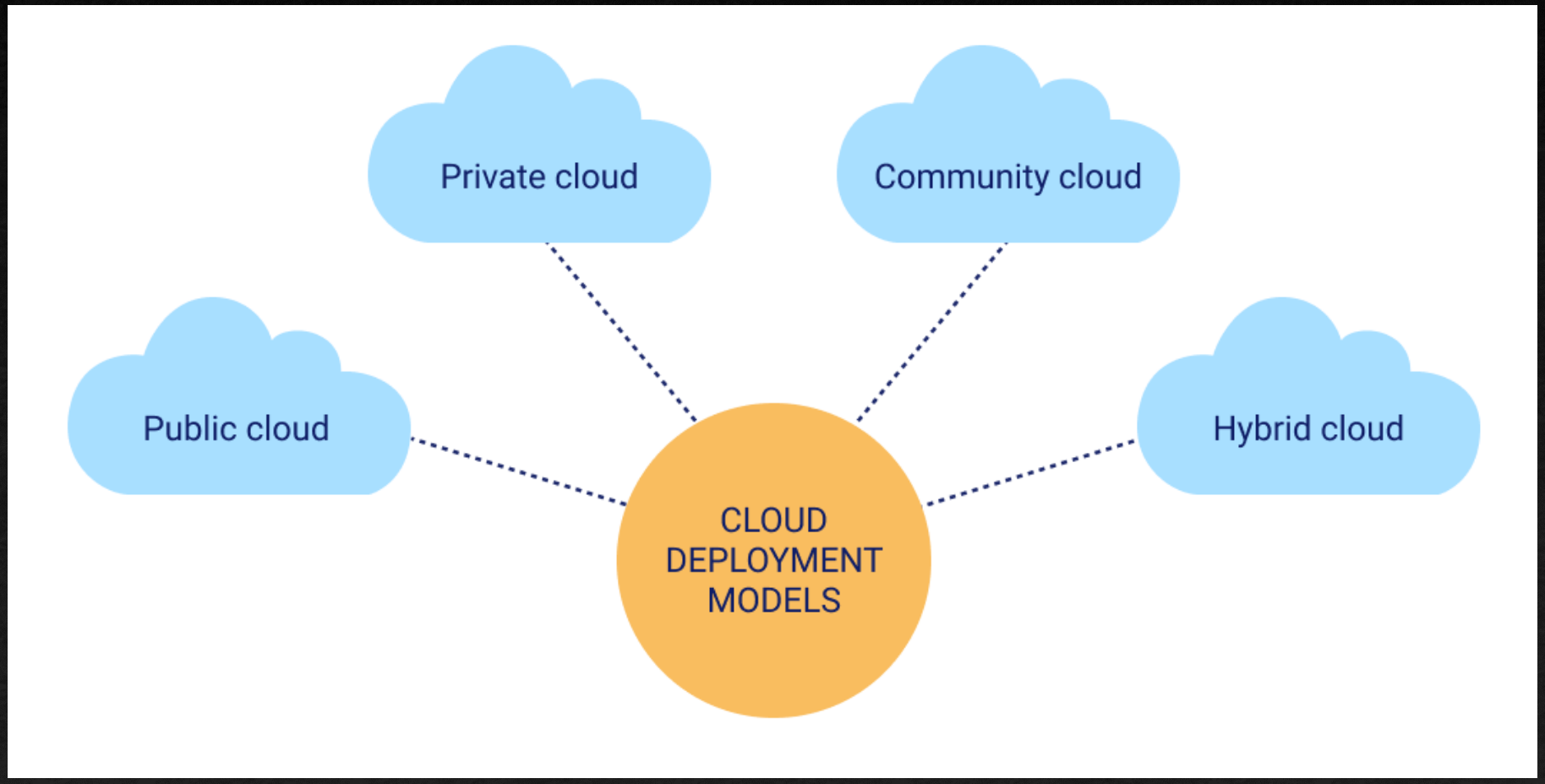
On Premise


On-site
Applications
Data
Runtime
Middleware
O/S
Virtualization
Servers
Storage
Networking

3 Core Pillars of Cloud



Cloud Deployment Models



Shared Responsibility Model

Shared Responsibility Model

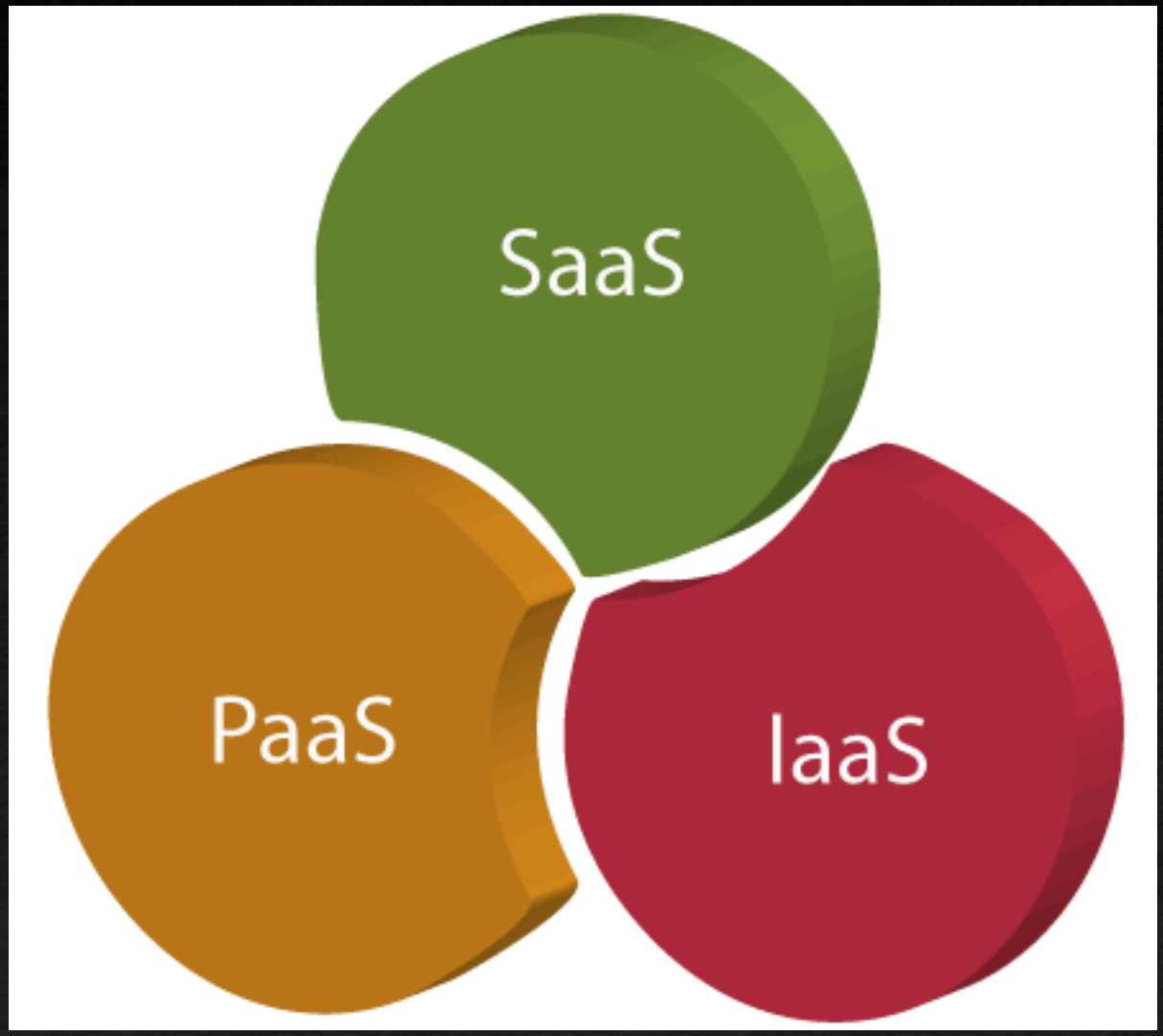
Cloud Service Provider (CSP)

Responsibility ***OF*** the Cloud

Customer

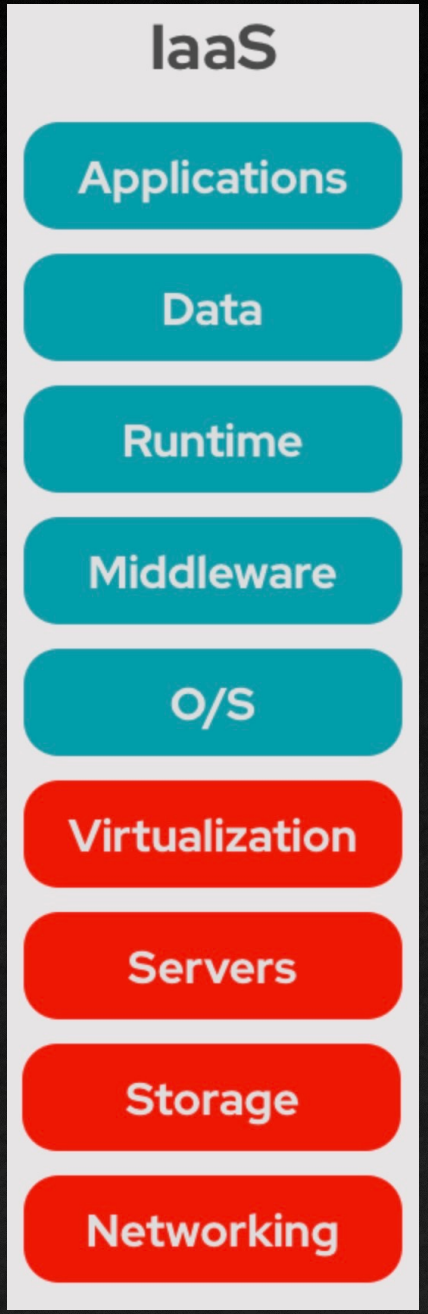
Responsibility ***IN*** the Cloud

Cloud Service Models



Infrastructure as a Service - IaaS

- What: Cloud computing model that offers virtual compute resource over the internet.
- Who: Teams who require virtual compute resources.
- Where: Provided by cloud service providers (CSPs) that operate data centres globally.
- When: Fine grained configurations or dependencies are required
- Why: Greater flexibility and control over the underlying infrastructure
- How: Users access IaaS resources through a web-based interface or API provided by the CSP, provisioning and managing virtualized resources remotely.



IaaS - Examples

- Microsoft Azure Virtual Machines
- Amazon Web Services (AWS) EC2 (Elastic Compute Cloud)
- Google Cloud Compute Engine

Platform as a Service - PaaS

- What: Tools and services for developing, deploying, and managing applications
- Who: Teams who focus on application development and deployment
- Where: Applications that can be developed, tested, and deployed on a cloud platform.
- When: Rapid application development, efficient deployment, and scalability
- Why: Simplify application development and deployment process, improve productivity, and reduce operational overheads.
- How: Web-based interfaces or APIs.

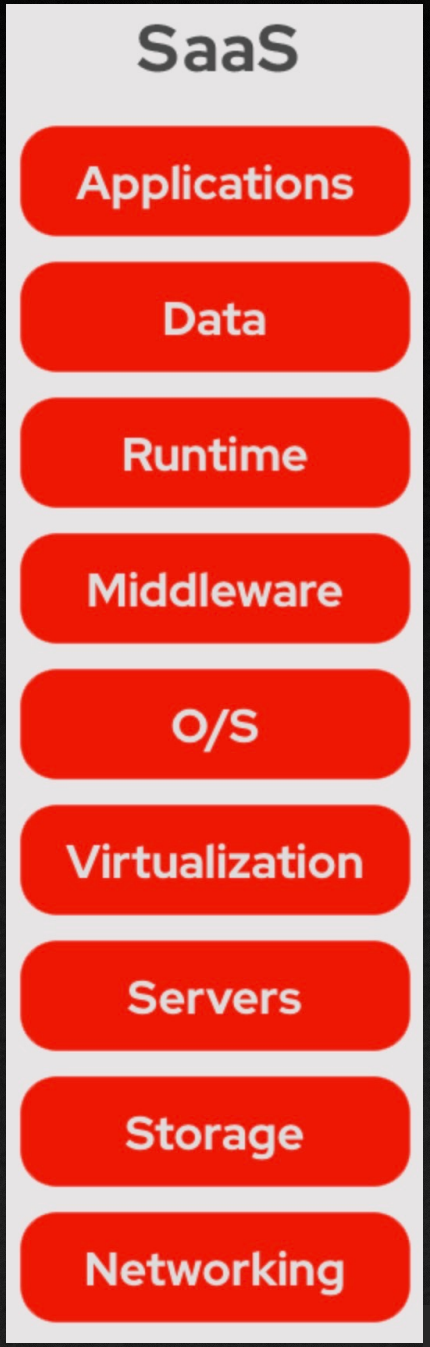
PaaS - Examples

- Azure App Service: Web applications.
- Azure Logic Apps: Workflows
- Azure SQL Database: Managed relational database
- Azure Cosmos DB: Managed NoSQL
- Azure Functions: Serverless compute

Serverless Compute ?

Software as a Service - SaaS

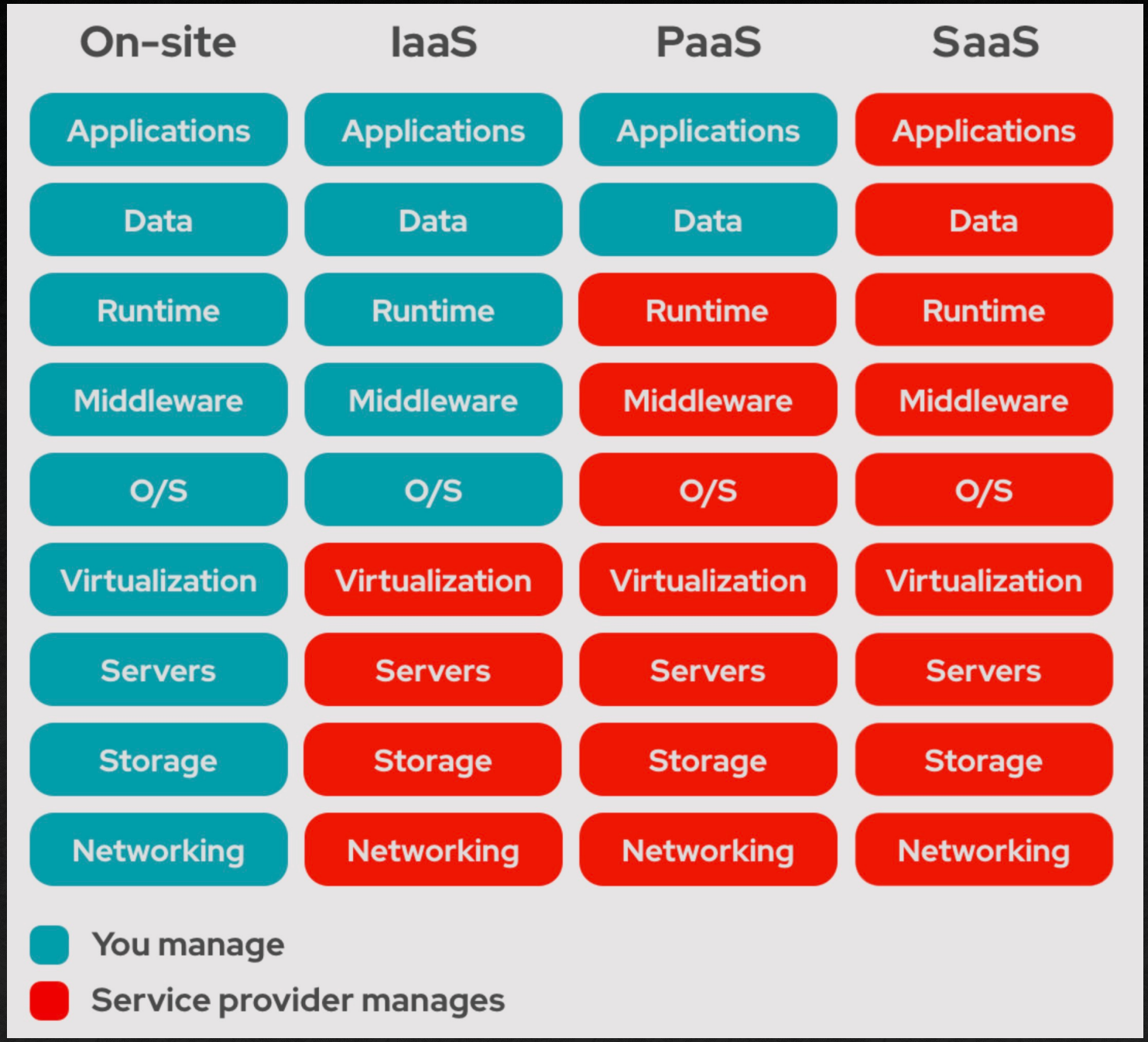
- What: Software over the internet
- Why: Cost-effective and scalable access to Software
- When: Easy access to applications from anywhere, on any device
- Where: Hosted and delivered from the cloud
- Who: Businesses, organizations, and individuals
- How: Typically accessed through a subscription-based model



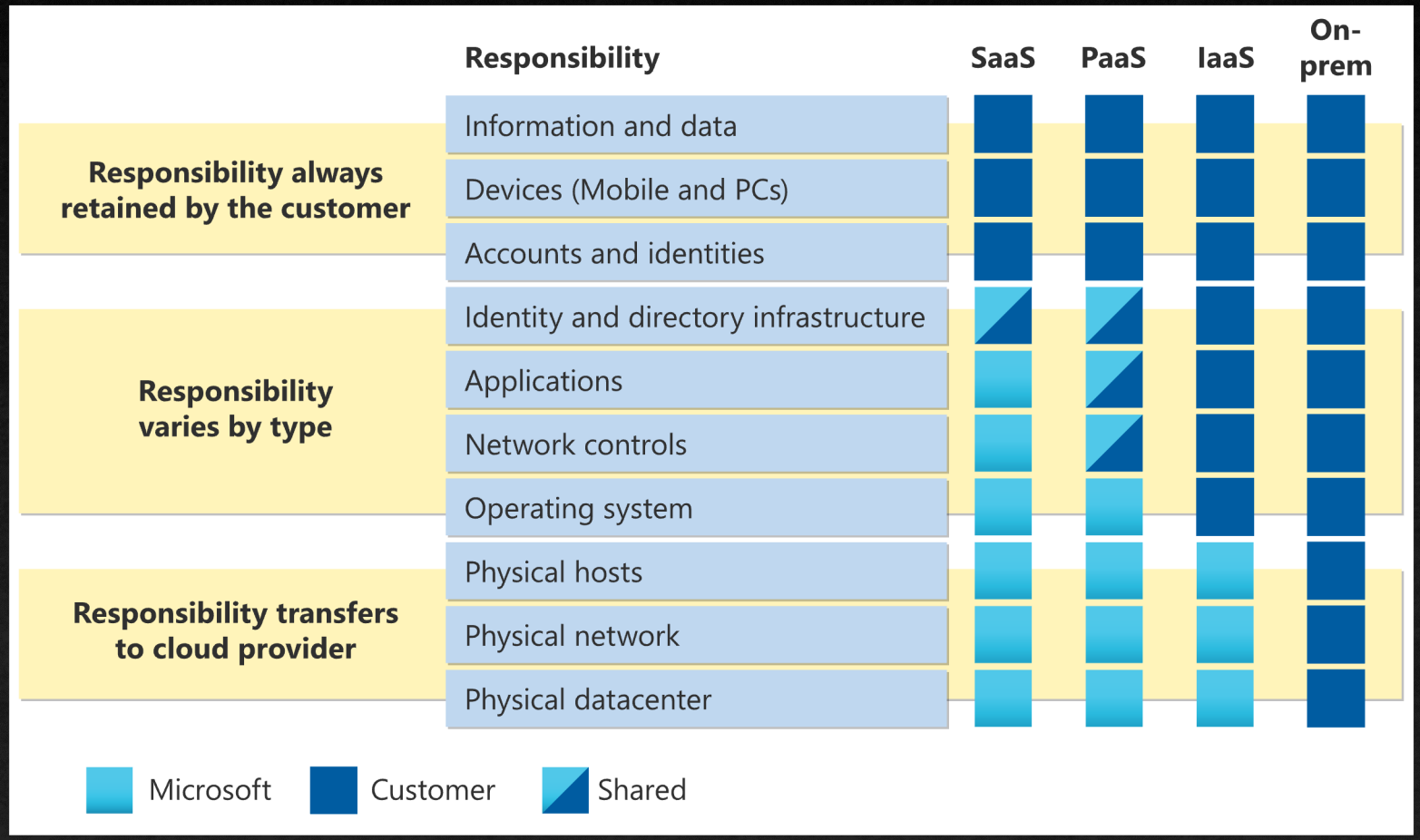
SaaS - Examples

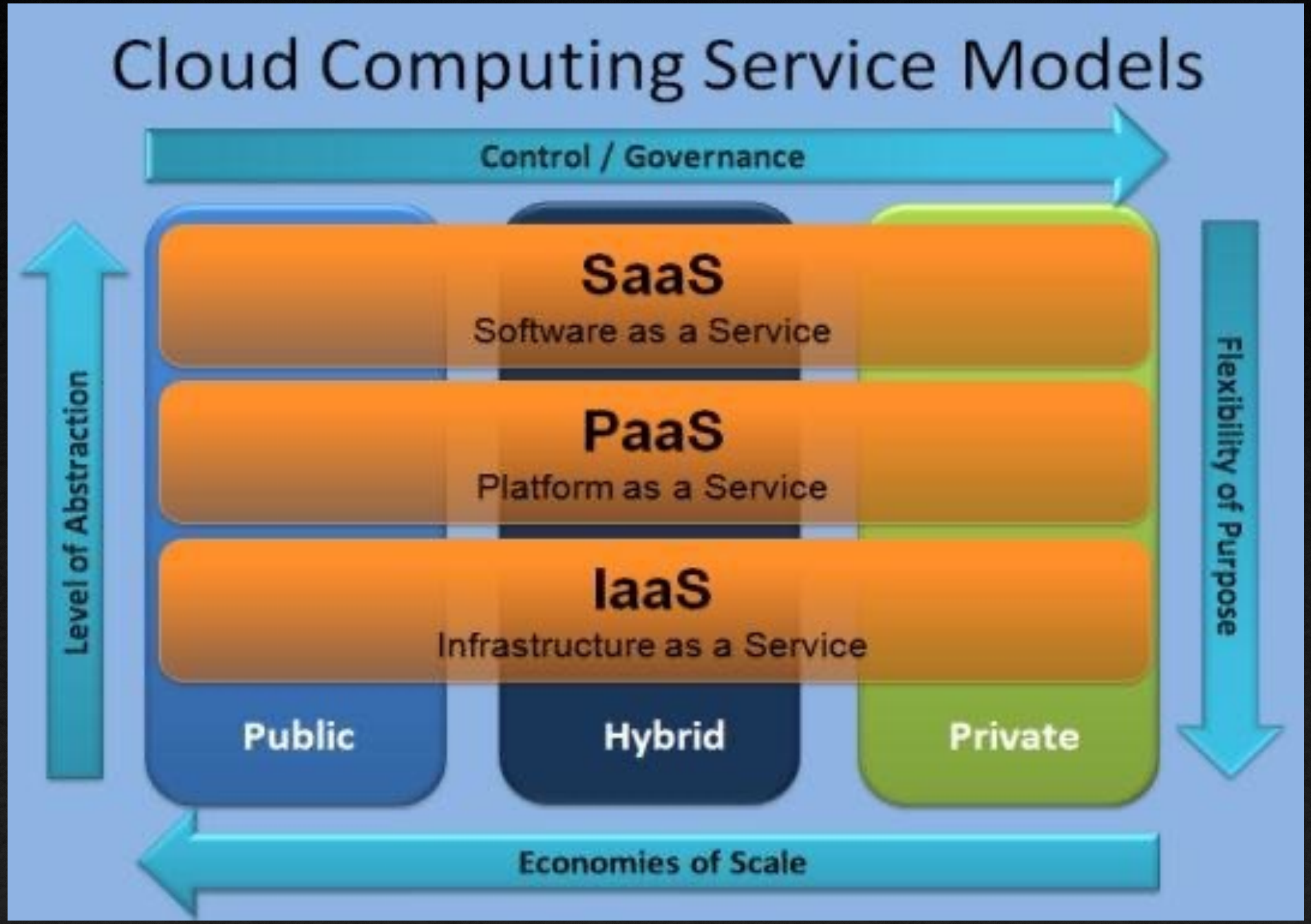
- Microsoft Office 365
- Azure Active Directory
- Microsoft Teams
- Microsoft Power BI
- Microsoft Defender for Cloud


GIC SHOW


On-site
IaaS
PaaS
SaaS
Applications
Data
Runtime
Middleware
O/S
Virtualization
Servers
Storage
Networking
You manage
Service provider manages

Division of responsibility




Cloud Computing Service Models
Control / Governance
Level of Abstraction
SaaS
Software as a Service
PaaS
Platform as a Service
IaaS
Infrastructure as a Service
Public
Hybrid
Private
Flexibility of Purpose
Economies of Scale


QUESTIONS?
I KNOW ONE OF YOU OUT THERE HAS ONE!


THANK YOU
FOR YOUR ATTENTION