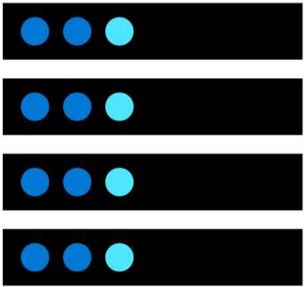




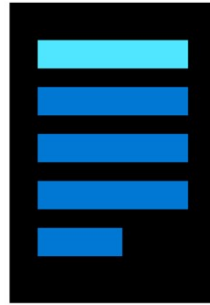
Explore Microsoft Azure Cloud concepts



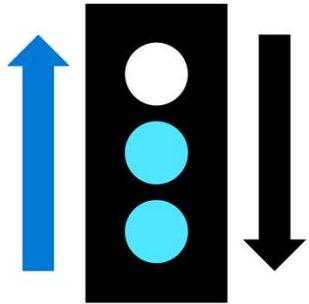
Define cloud computing



Compute



Storage



Networking



Analytics



Cloud providers include
Microsoft, Amazon, and Google

Try This Exercise

1. Open a browser.
2. Enter the URL portal.azure.com
3. Take a few minutes and look at the site.
4. Can you find:
 1. where to create a resource like a Virtual Machine?
 2. how to launch your Dashboard to see what resources you have?
 3. where Microsoft Learn training site is linked right into Azure to help you learn?
5. Close your browser.

Explore key cloud concepts

High availability

Fault tolerance

Scalability

Elasticity

Global reach

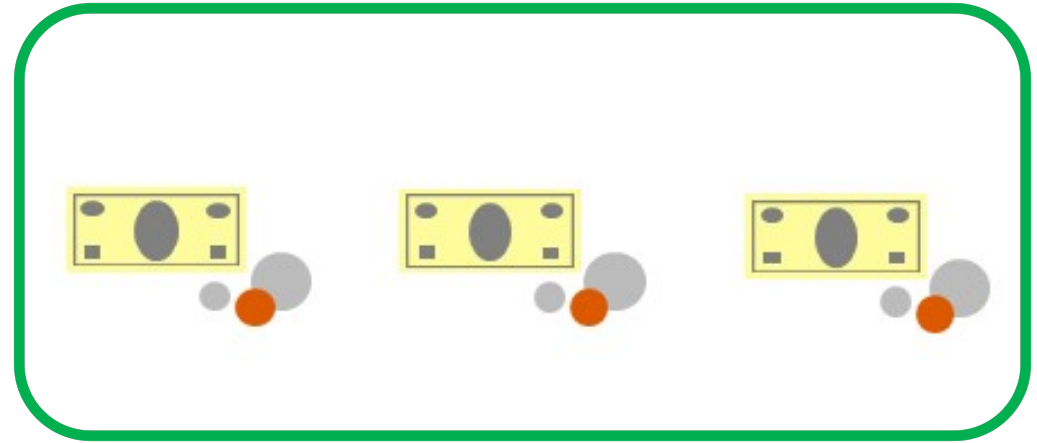
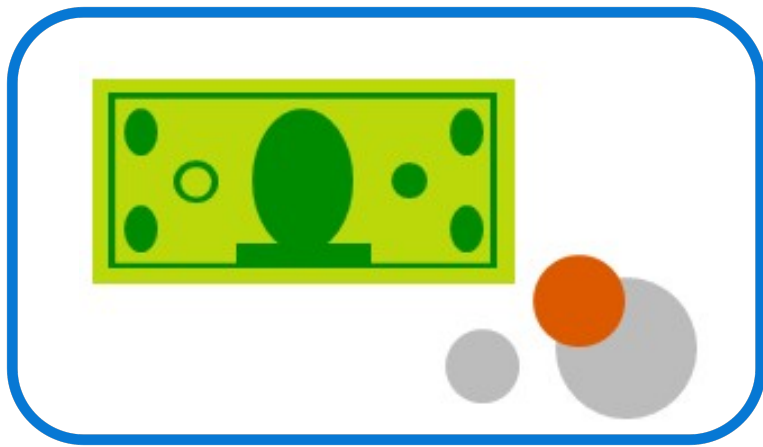
Predictive cost

Agility

Security

Disaster recovery

Compare CapEx vs. OpEx



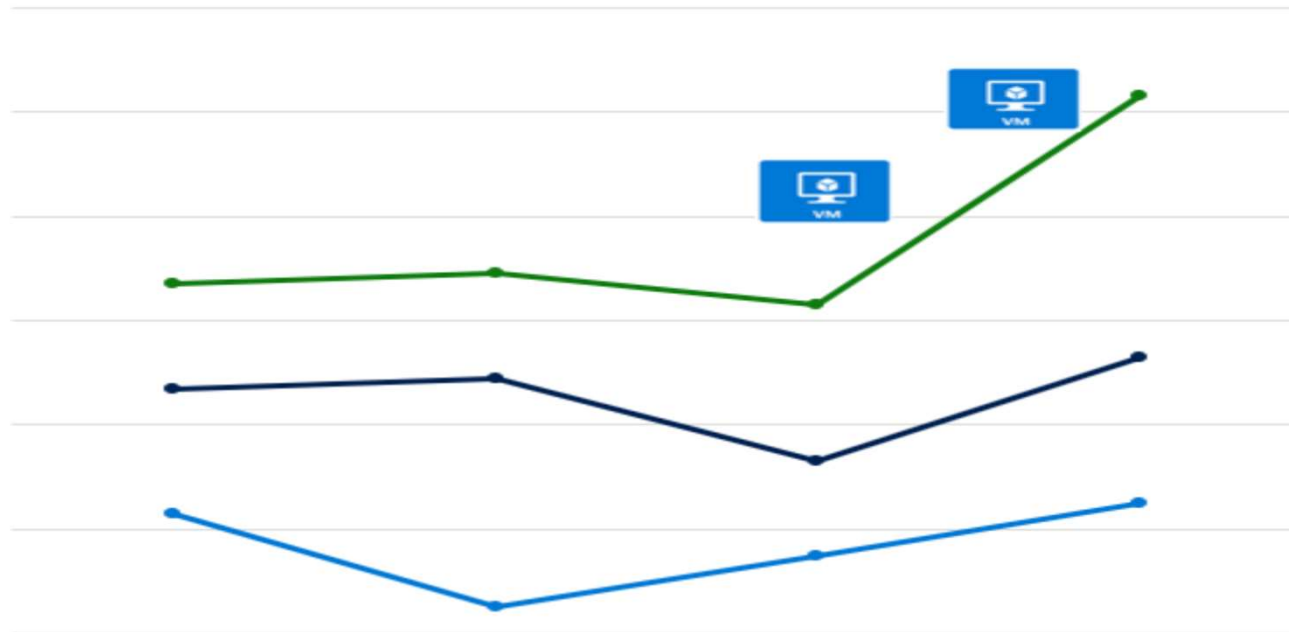
Capital Expenditure (CapEx)

- High upfront cost
- Value of investment reduces over time.

Operational Expenditure (OpEx)

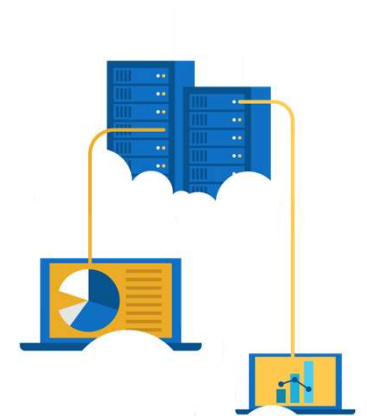
- Spend as needed.
- No upfront cost, pay-as-you use.

Define consumption-based model



Consumption-based model = Pay only for the resources you use

Module: Distinguish types of cloud models



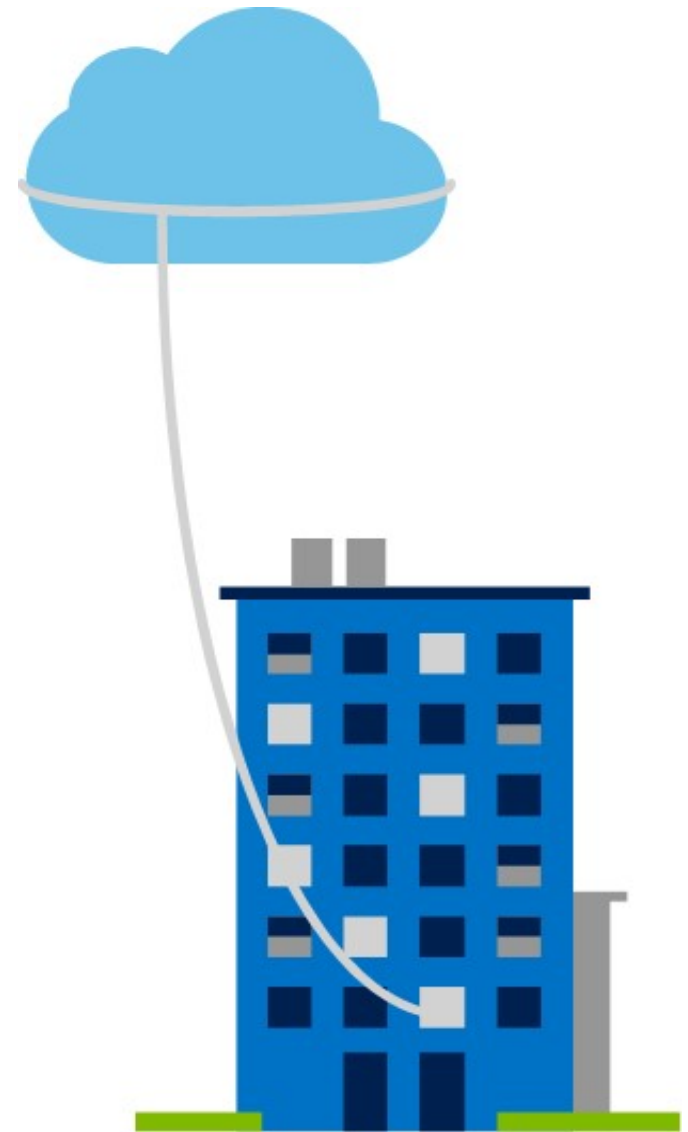
Define **public cloud**



- Owned by cloud services provider.
- Provides resources to multiple organizations and users
- Accessed via secure network connection
- (typically over the internet).

Define private cloud

- Organizations create a cloud environment in their datacenter.
- Organizations are responsible for operating the services they provide.



Define hybrid cloud



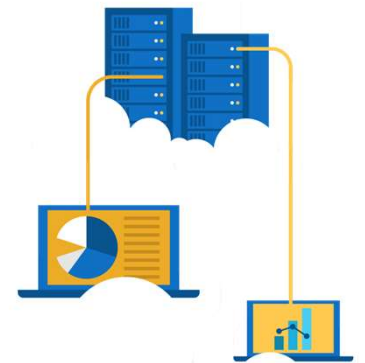
Combines *Public* and *Private* clouds to allow applications to run in the most appropriate location.

Community Cloud

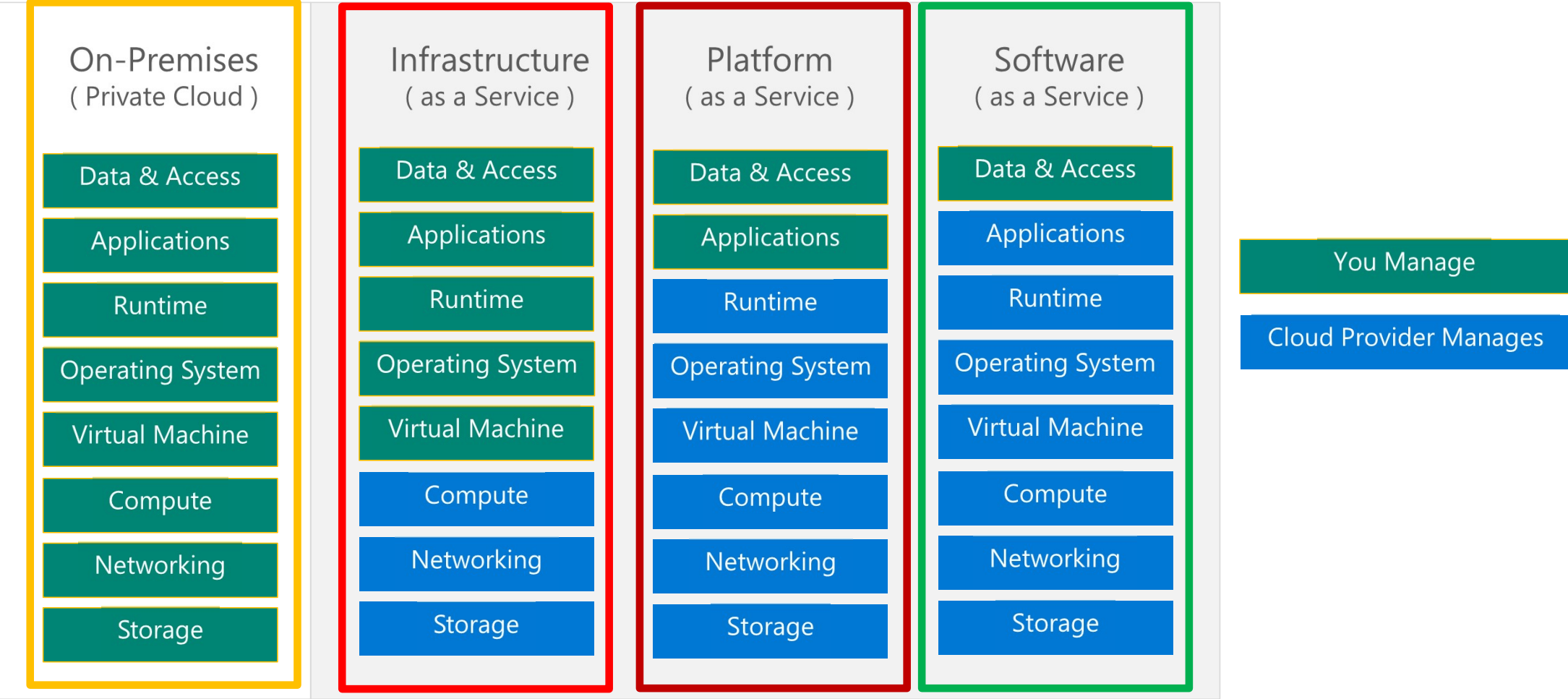
A collaborative effort where infrastructure is shared and jointly accessed by several organizations



Module: Explore types of cloud services

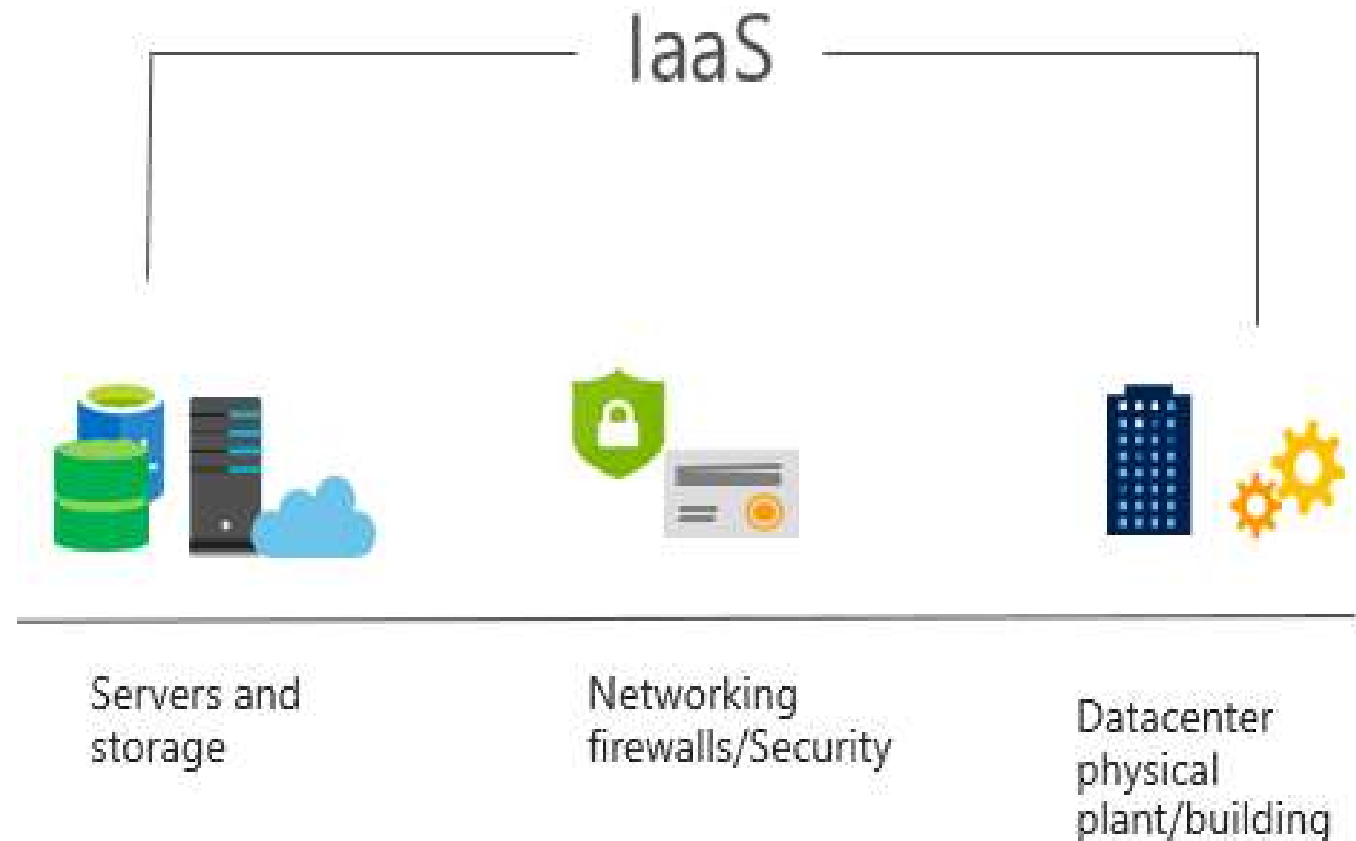


Discuss shared responsibility model



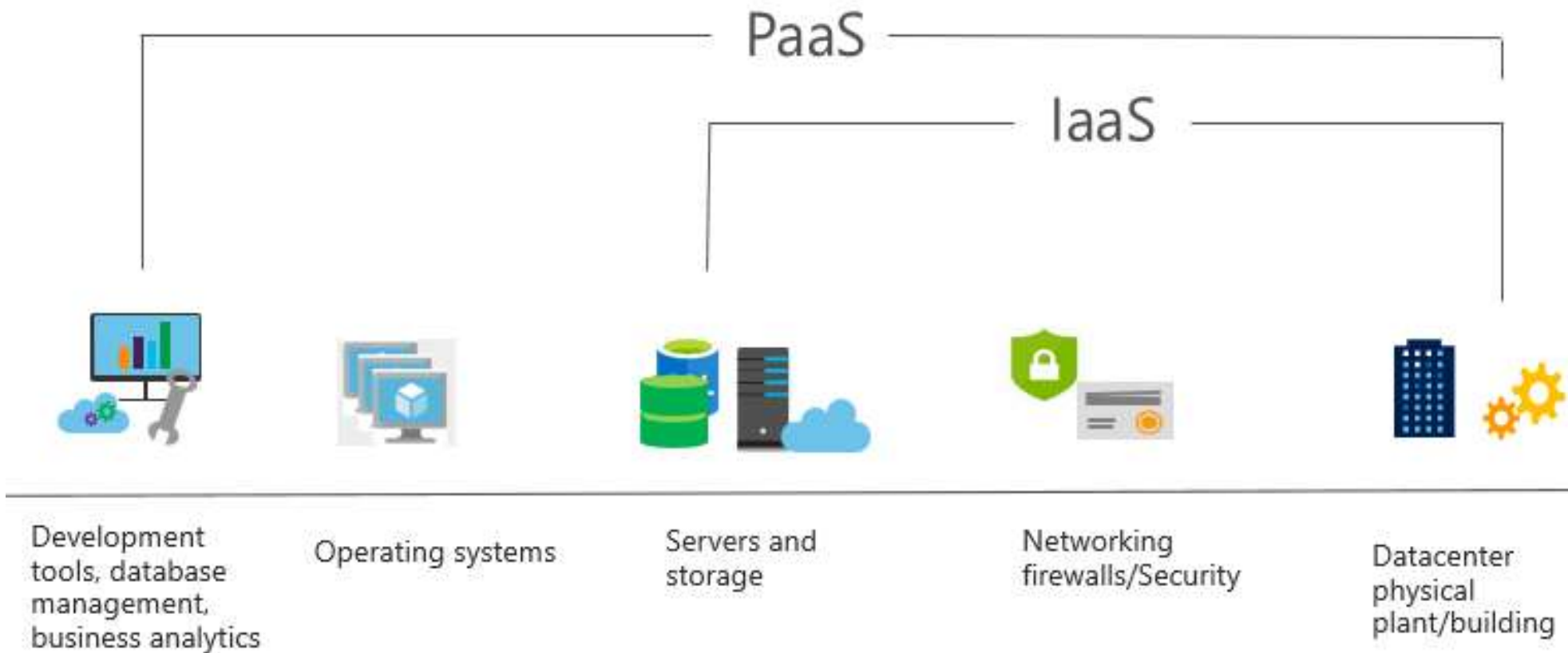
Define Infrastructure as a Service (IaaS)

- Build pay-as-you-go IT infrastructure
- By renting servers, virtual machines, storage, networks, and operating systems from a cloud provider.

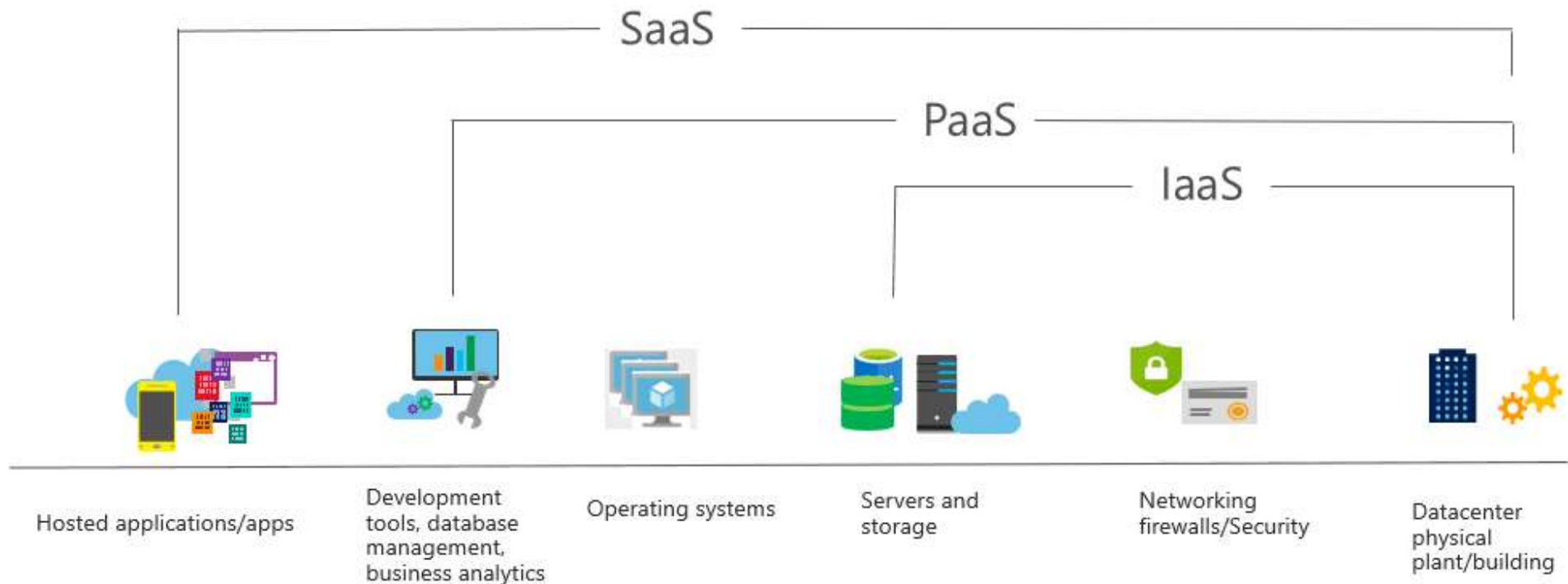


Define Platform as a Service (PaaS)

Provides environment for building, testing, and deploying software applications; without focusing on managing underlying infrastructure.

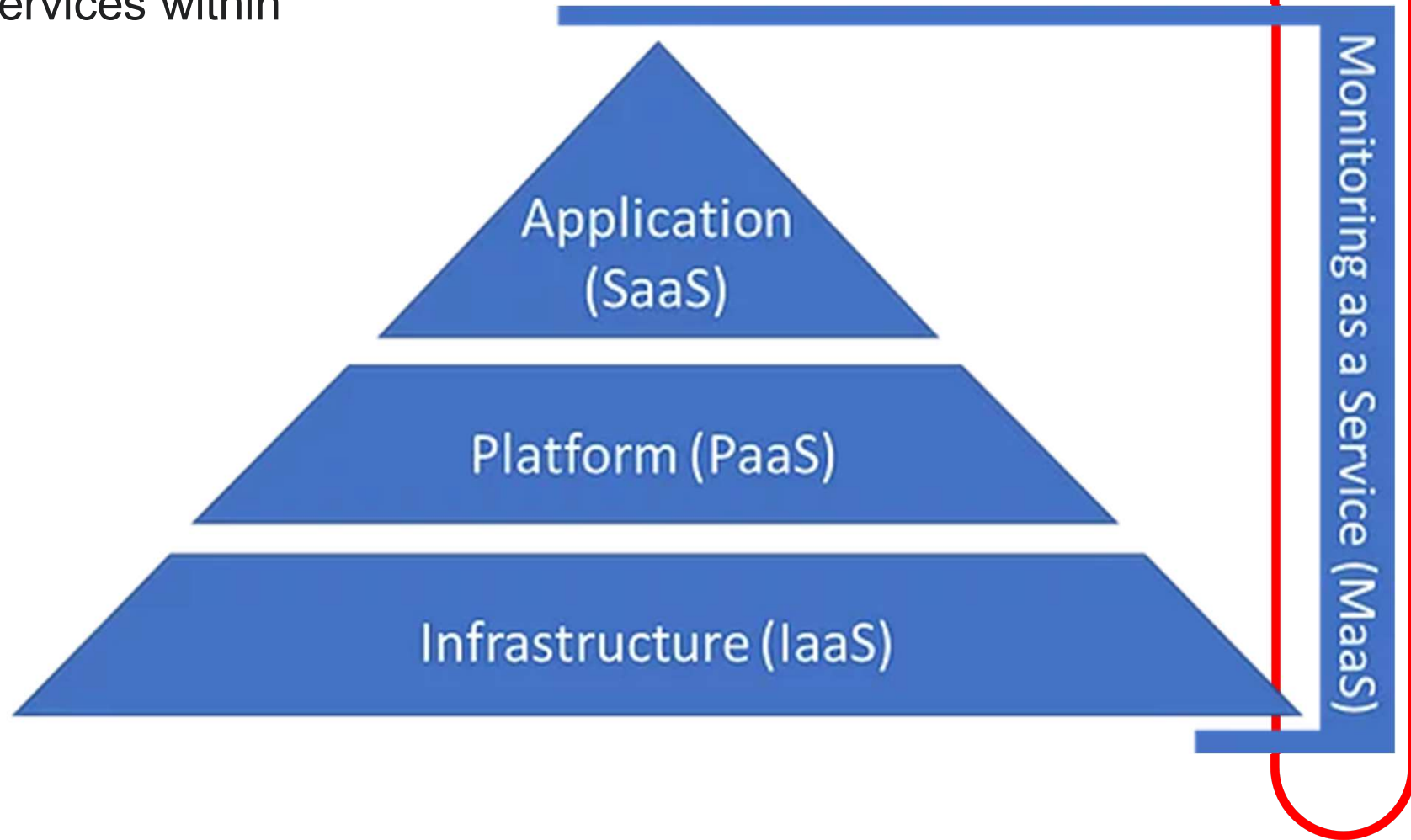


Define Software as a Service (SaaS)



Users connect to and use cloud-based apps over the internet: for example, Microsoft Office 365, email, and calendars.

- Monitoring functionalities
- For various other services within cloud.



Thanks