

# Introduction to Cloud Computing

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# Agenda

- Introduction to Cloud Computing
- Advantages of Cloud over On-Premises
- Major Cloud Vendors
- Cloud Computing Characteristics
- Overview of Service Models
- Service Models Demo
- Deployment Models

# Cloud Computing



Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.



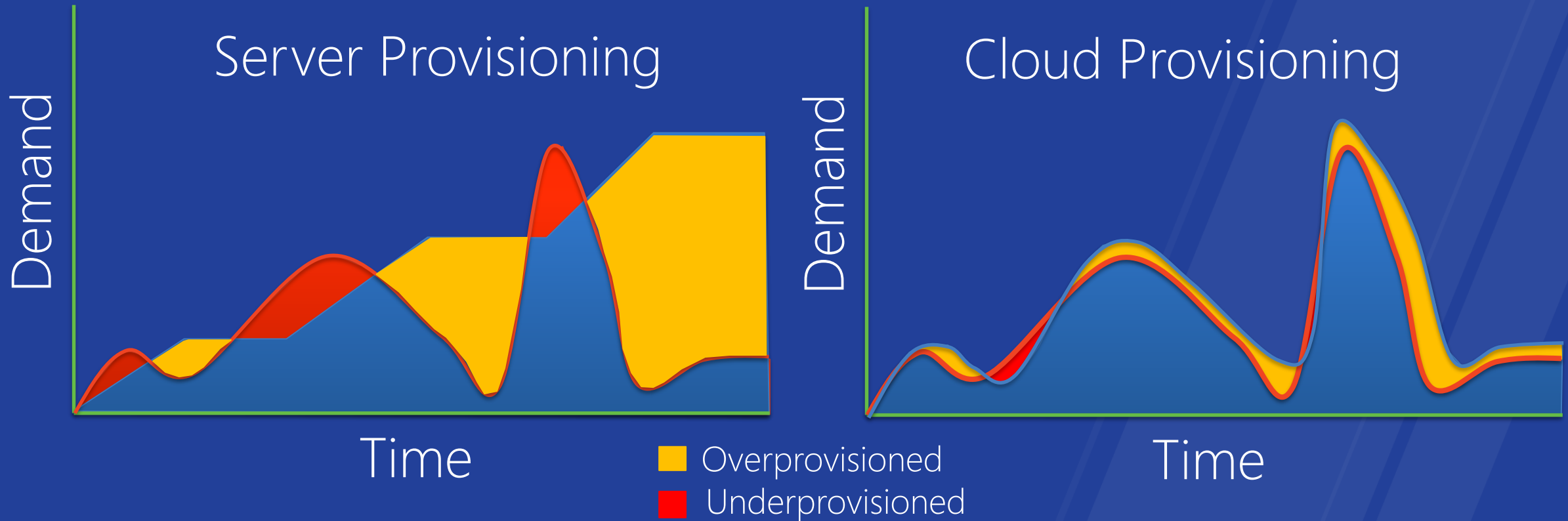
*"Cloud computing is a style of computing where massively scalable IT-related capabilities are provided as a service across the Internet to multiple external customers"*



*"Cloud computing is Web-based processing, whereby shared resources, software, and information are provided to computers and other devices (such as smart phones) on demand over the Internet."*

# What is a "Cloud"?

- Cloud: on-demand, scalable, multi-tenant, self-service compute and storage resources



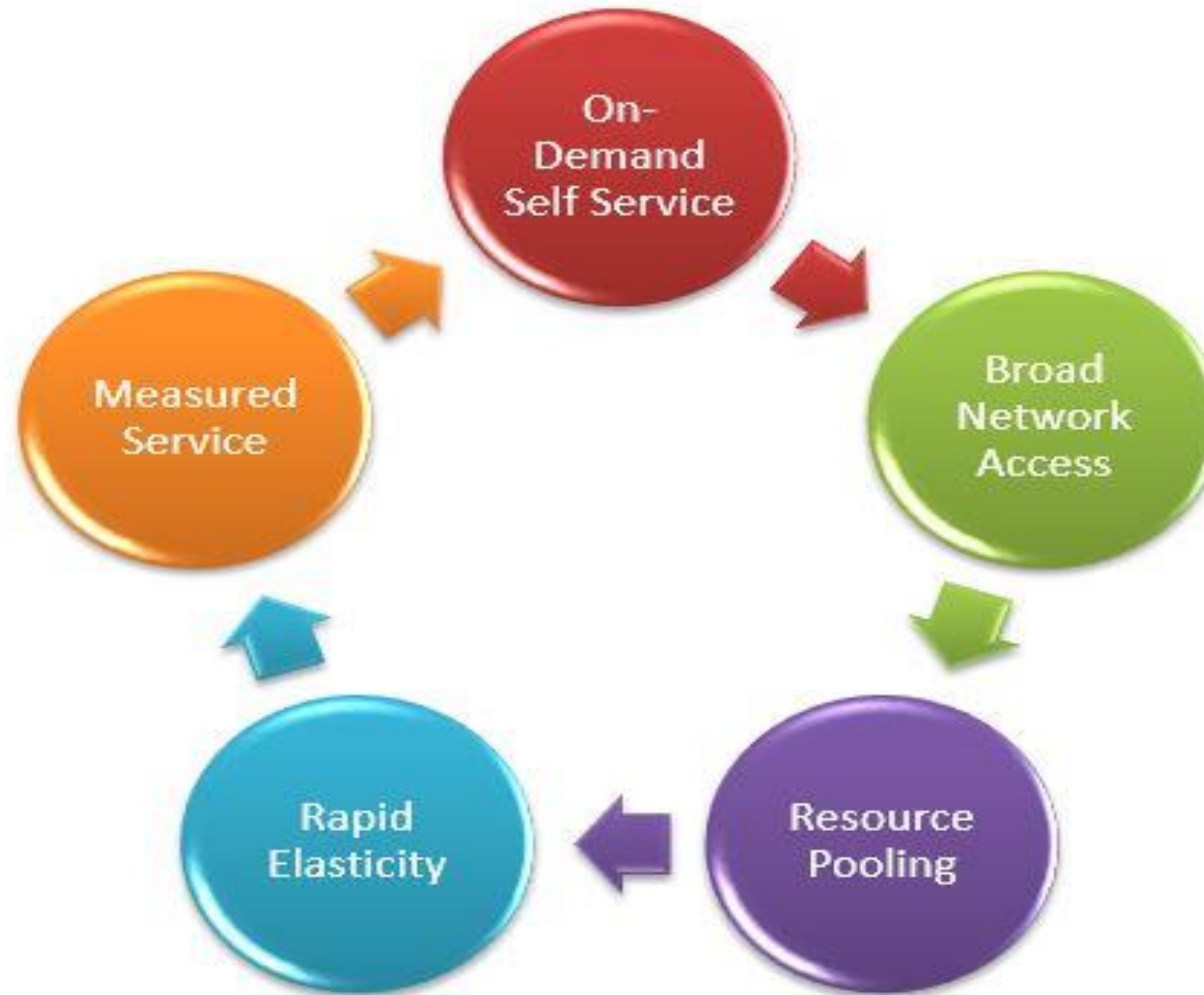
# Cloud Vendors

## PUBLIC CLOUD



# Cloud Computing Characteristics

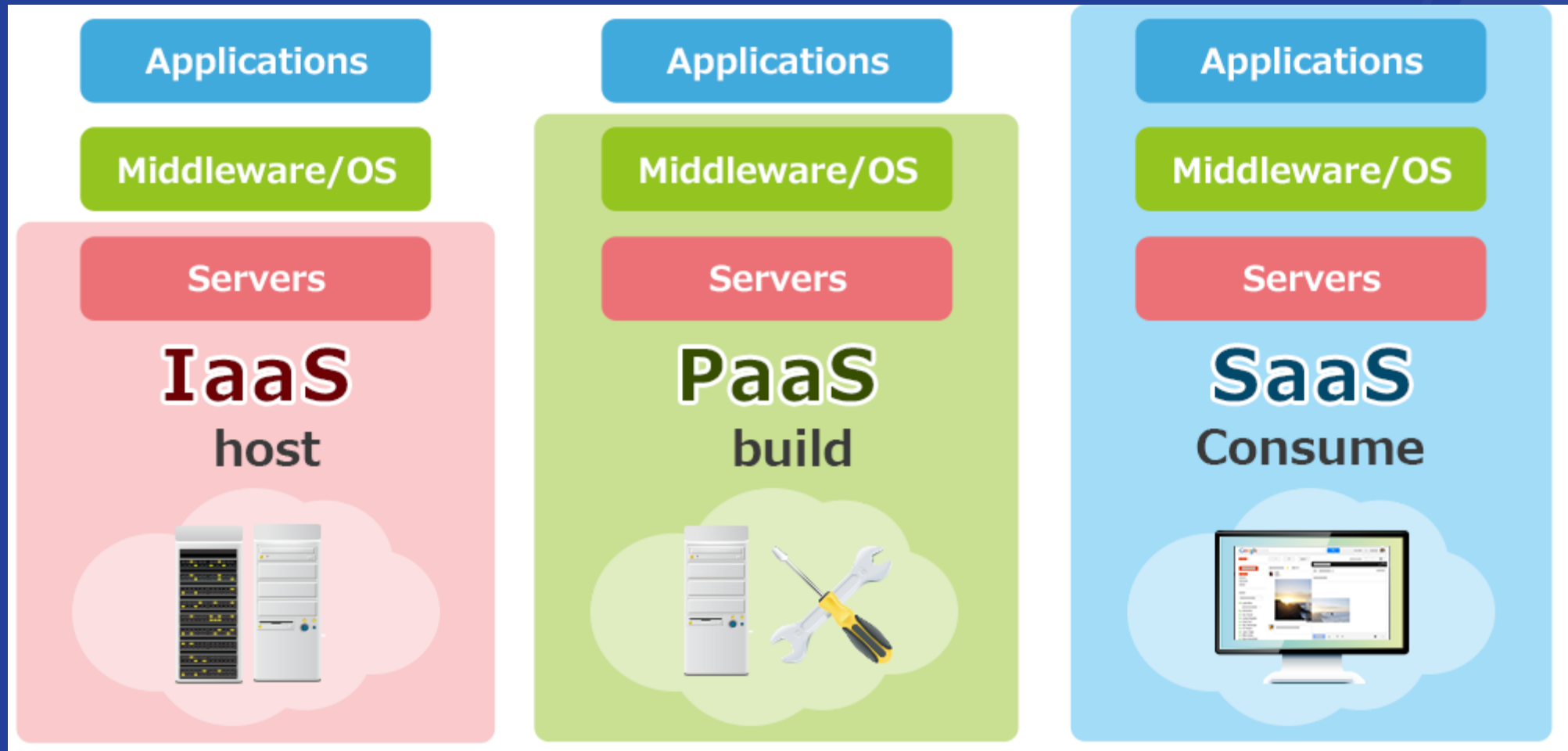
## 5 Essential Characteristics



# Service Models

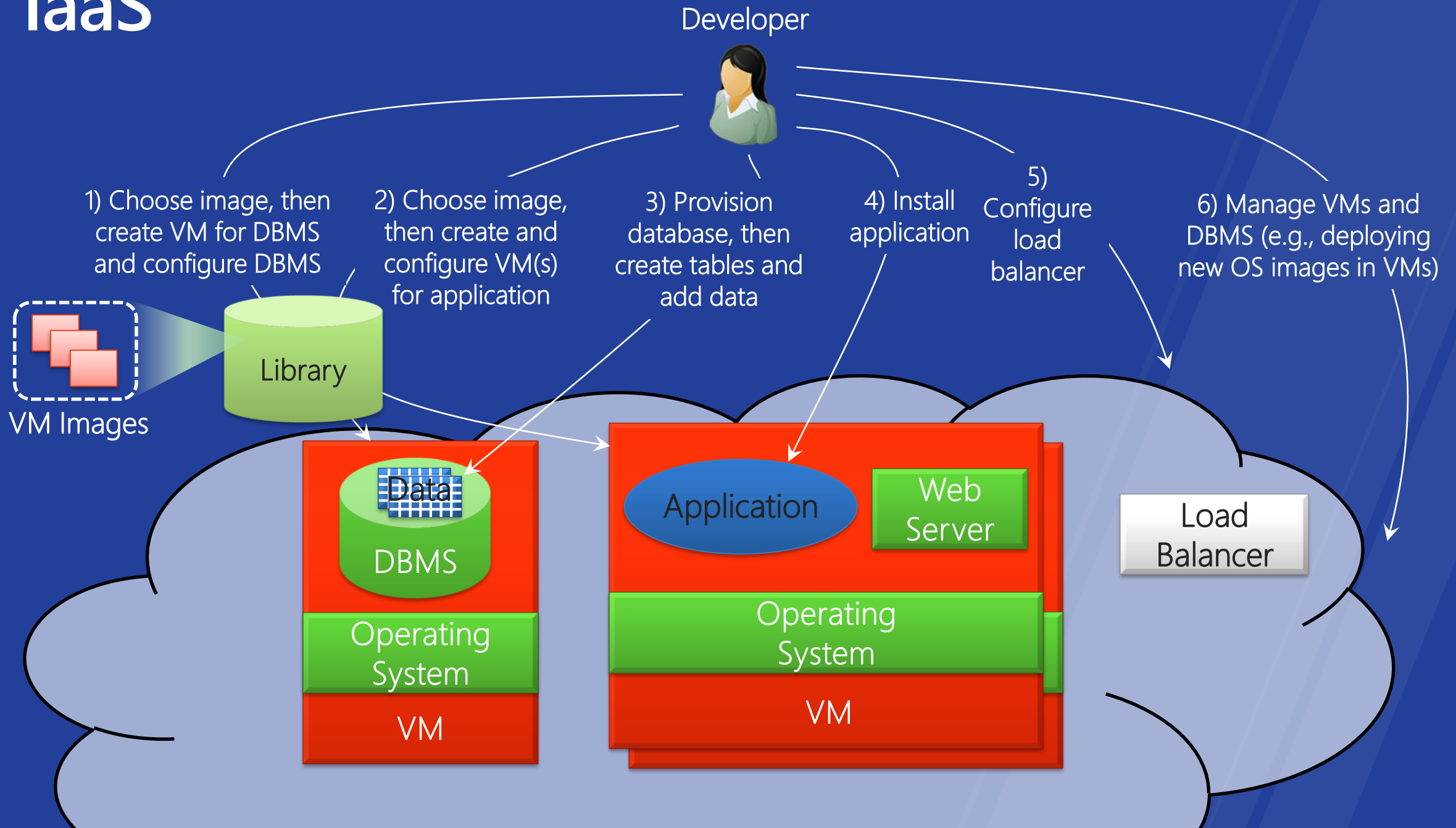
- Infrastructure as a Service (IaaS):  
basic compute and storage resources
  - On-demand servers
  - Amazon EC2, VMWare vCloud
- Platform as a Service (PaaS): cloud application infrastructure
  - On-demand application-hosting environment
  - E.g. Google AppEngine, Salesforce.com, Windows Azure
- Software as a Service (SaaS): cloud applications
  - On-demand applications
  - E.g. Office 365, GMail, Microsoft Office Web Companions

# Service Models

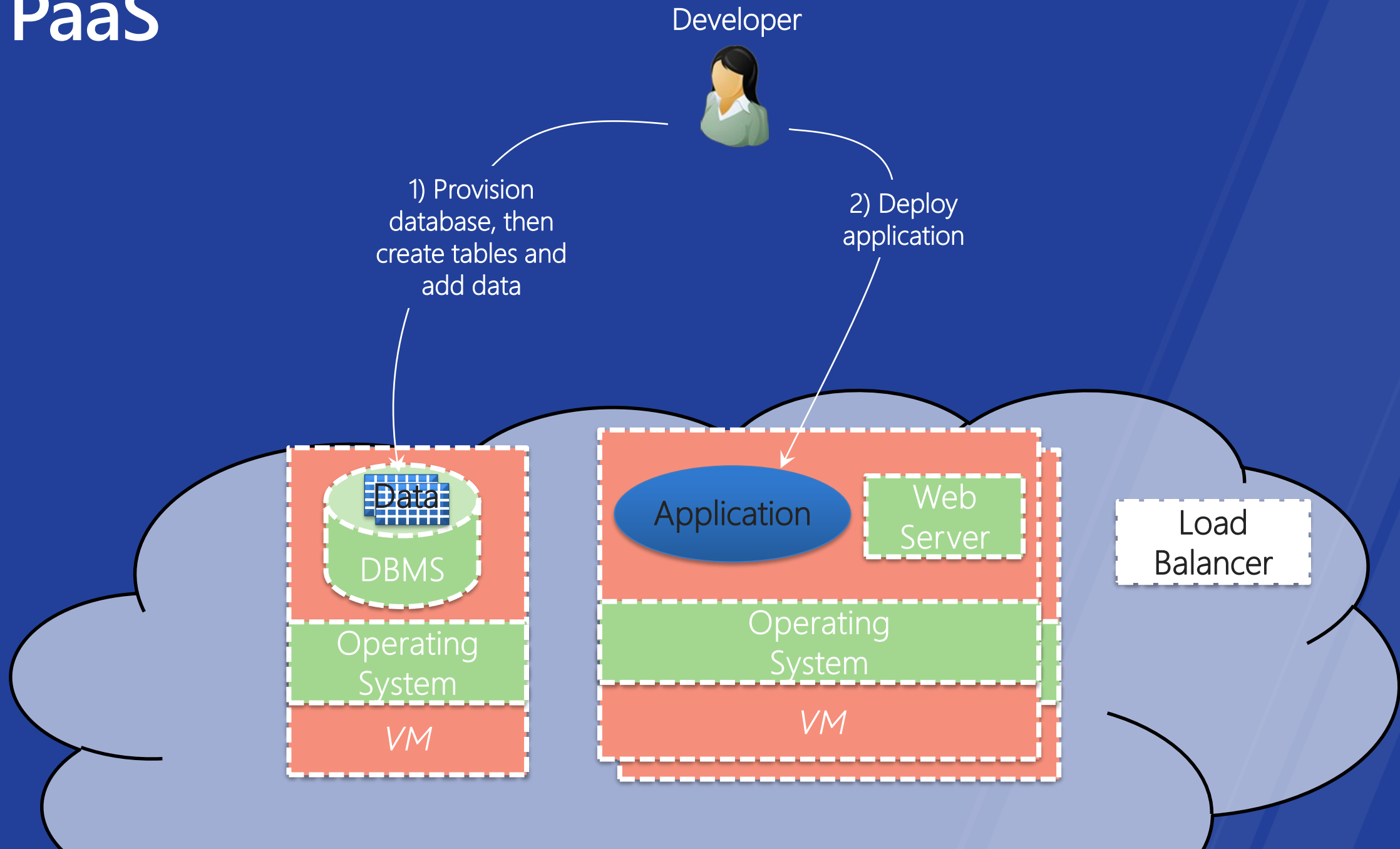




# IaaS



# PaaS



# SaaS

## SaaS Examples, General Market

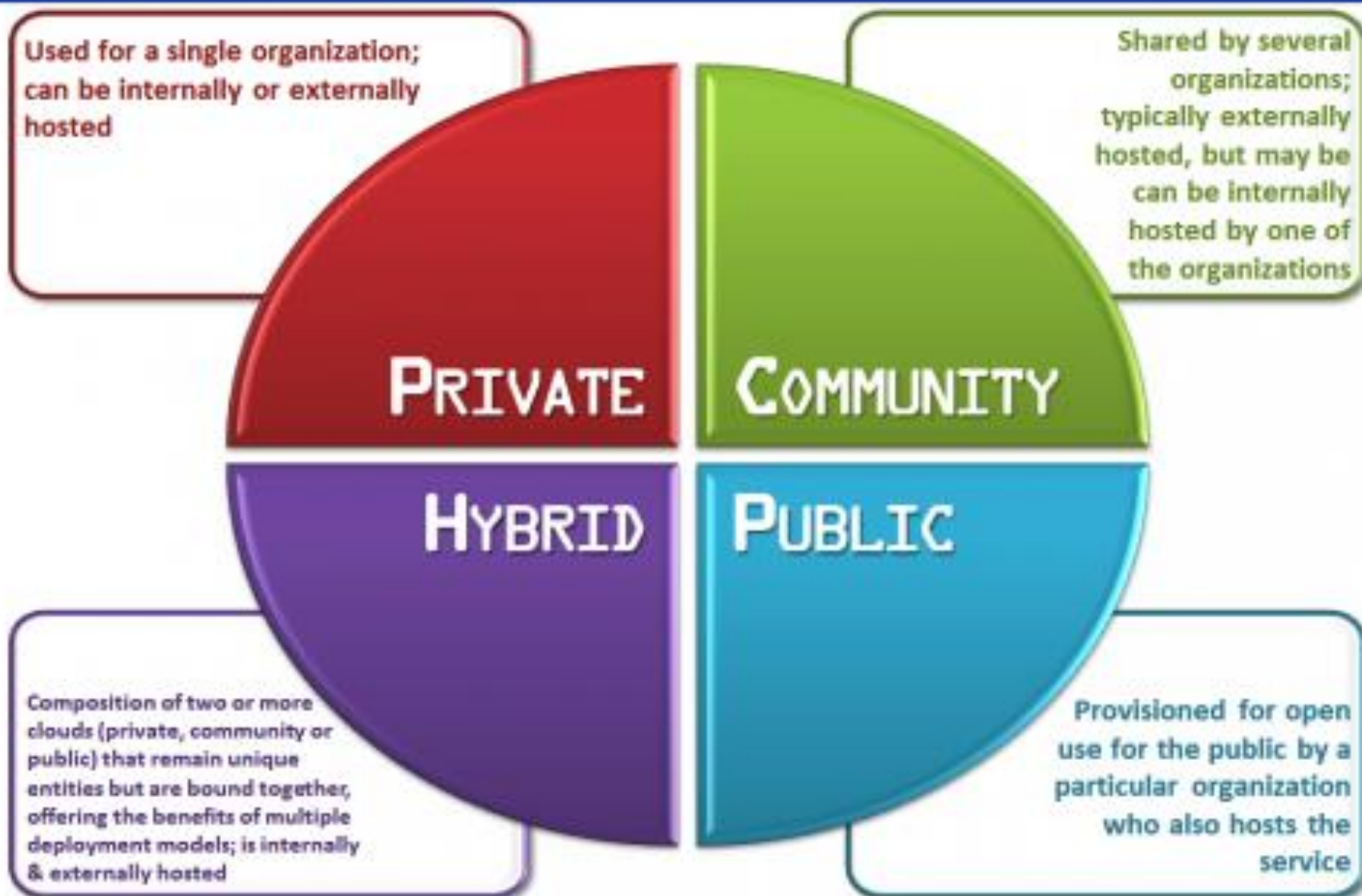
### SaaS For Enterprises



### SaaS For Consumers



# Deployment Models



Thank You