

# Microsoft Azure - A Bird's Eye View



# Speaker Introduction



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## Interests

- Digital Designing
- Cloud Computing
- Artificial Intelligence
- Internet of Things
- IT Infrastructure
- Cyber Security
- Operations Management
- Organizational Leadership
- Photography

## Social

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# Topics to be discussed

- A step towards Cloud Computing
- Azure the giant
- Benefits of Cloud Computing
- Types of Cloud Computing
- Management Responsibilities
- Azure Deployment Models
- Containers
- Serverless Computing



# A step towards Cloud Computing

Cloud computing is the delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence – over the Internet (“the cloud”) to offer faster innovation, flexible resources, and economies of scale.



# Azure the giant

Microsoft calls their cloud provider service

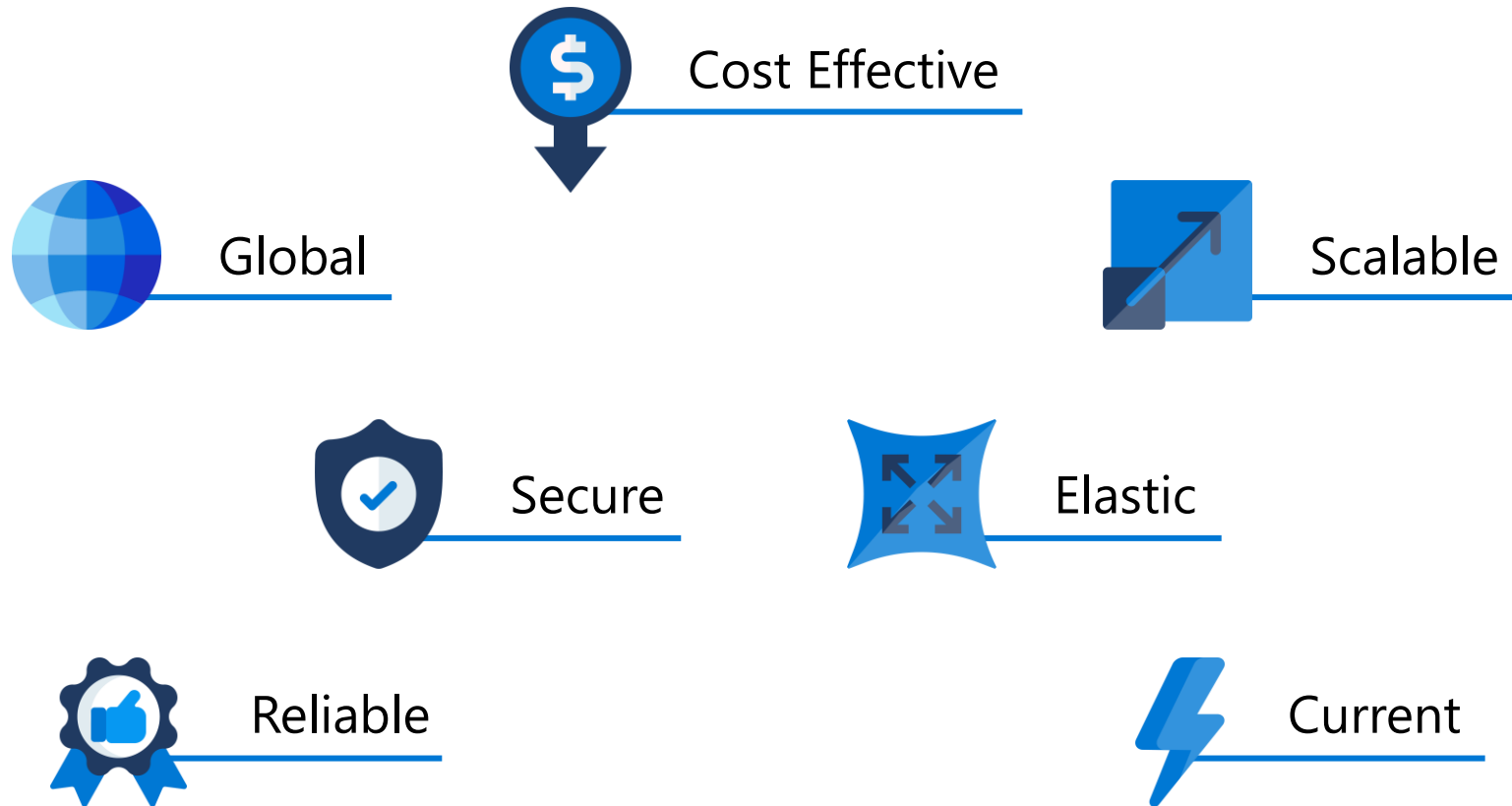
Microsoft Azure

Commonly referred to just Azure



Azure literally means "bright blue color of the cloudless sky"

# Benefits of Cloud Computing



# Types of Cloud Computing



## Infrastructure as a service (IaaS)

The most basic category of cloud computing services. With IaaS, you rent IT infrastructure—servers and virtual machines (VMs), storage, networks, operating systems—from a cloud provider on a pay-as-you-go basis. This type is for Customers.



## Platform as a service (PaaS)

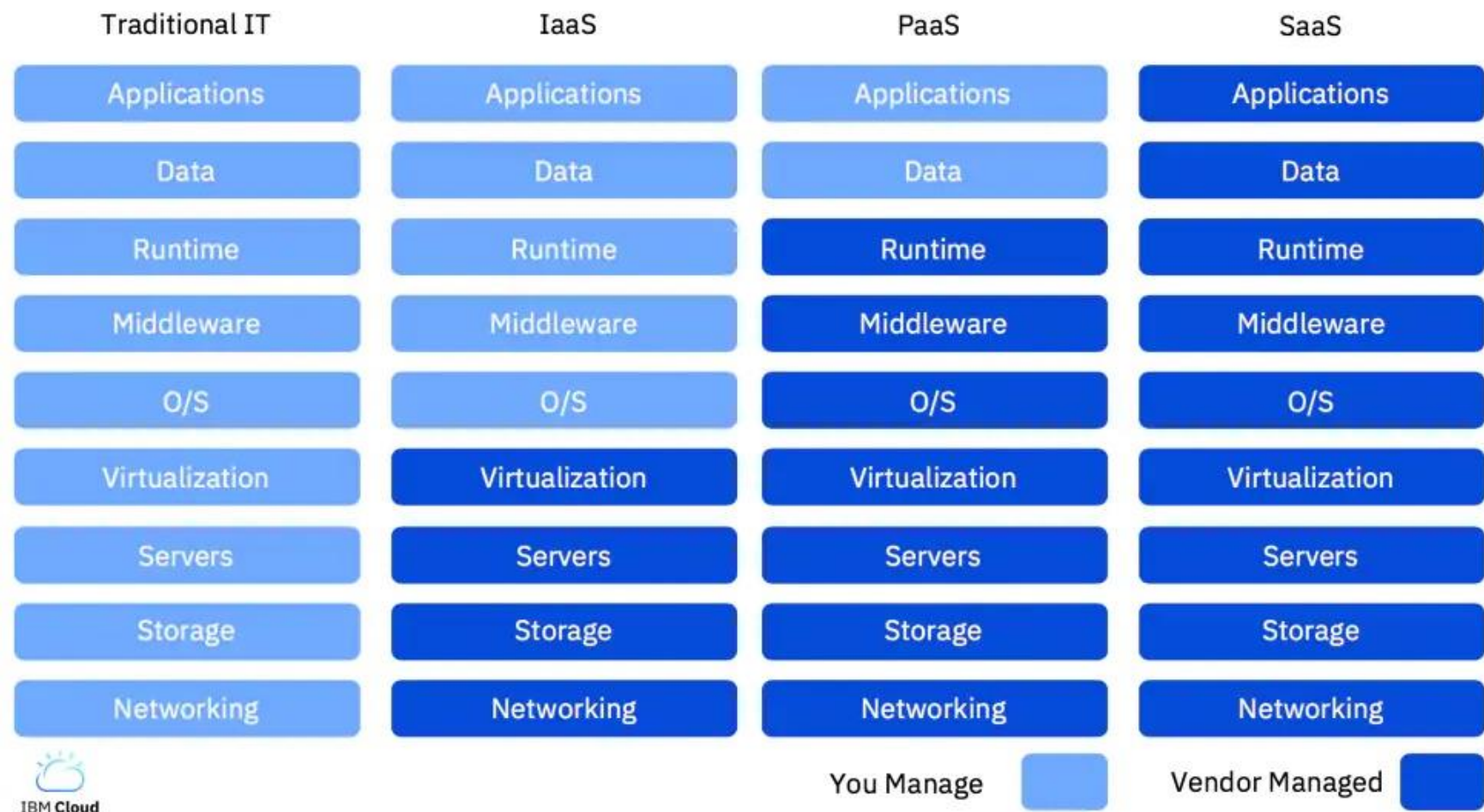
Platform as a service refers to cloud computing services that supply an on-demand environment for developing, testing, and managing software applications without worrying about setting up or managing the underlying infrastructure of servers, storage, network, and databases needed for development. This type is for Developers.



## Software as a service (SaaS)

Software as a service is a method for cloud providers to host and manage the software application and underlying infrastructure, and handle any maintenance, like software upgrades and security patching. This type is for Admins.

# Management Responsibilities





# Azure Deployment Models



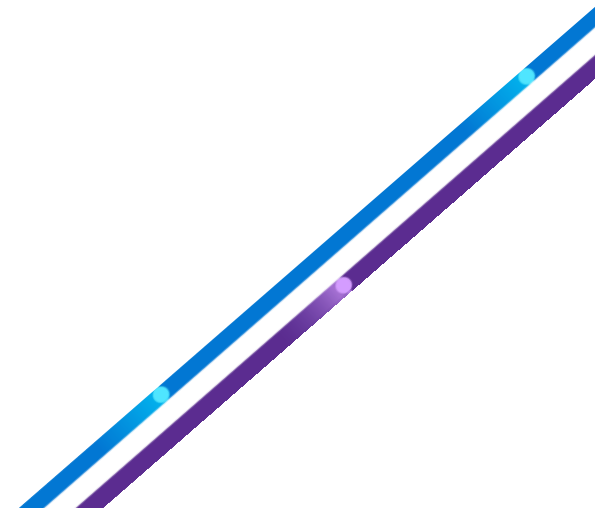
Cloud provider manages everything.  
Access all services and manage account using a web browser.



Everything build on company's datacenter.  
Maintained on a private network. Also known as on premise.

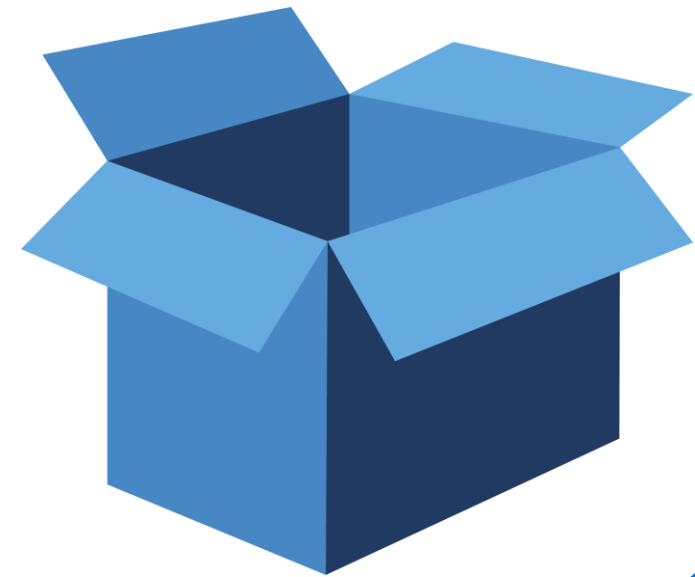


Combination of Public and Private cloud.  
Allows data and application to be shared between.

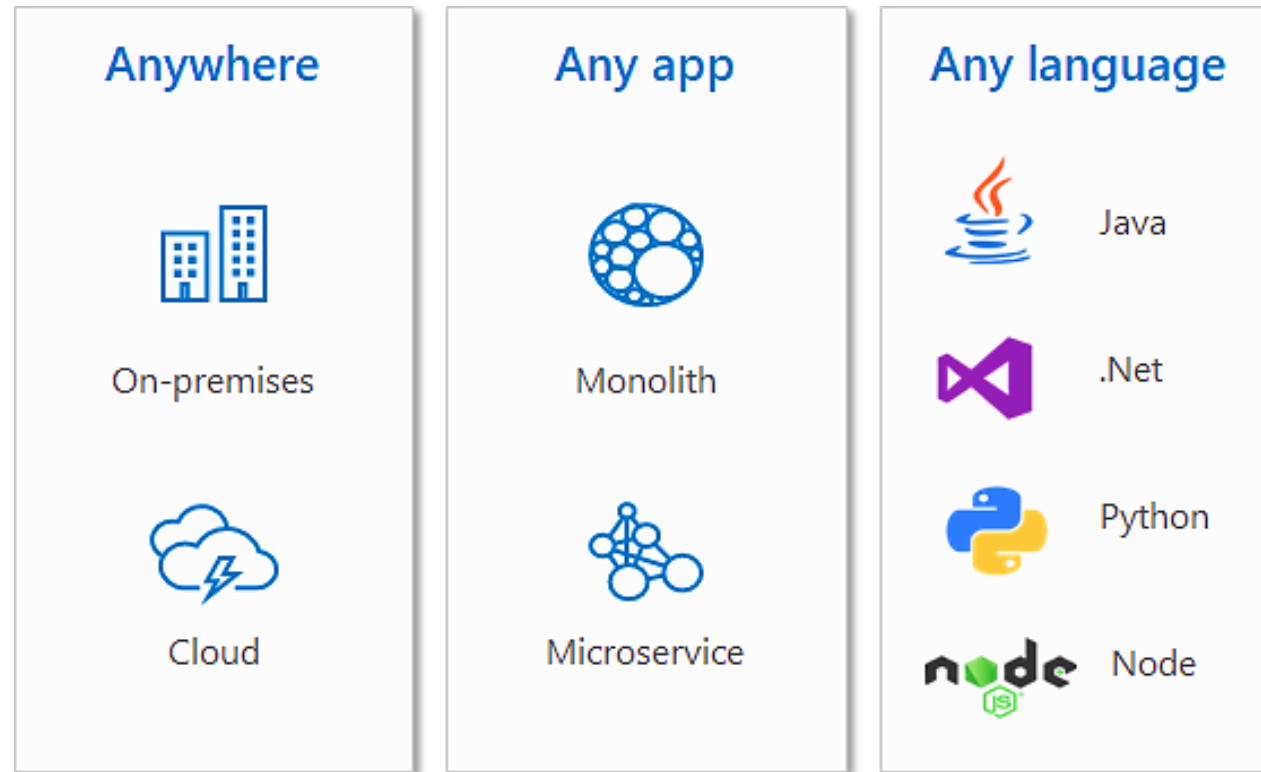


# Containers

- Containers are a technology for packaging and running Windows and Linux applications across diverse environments on-premises and in the cloud.
- Containers provide a lightweight, isolated environment that makes apps easier to develop, deploy, and manage.
- Containers start and stop quickly, making them ideal for apps that need to rapidly adapt to changing demand.



# Benefits of Container Based Architectures

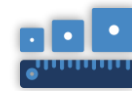


# Serverless Computing

Serverless computing enables developers to build applications faster by eliminating the need for them to manage infrastructure. With server-less applications, the cloud service provider automatically provisions, scales, and manages the infrastructure required to run the code.



No infrastructure management



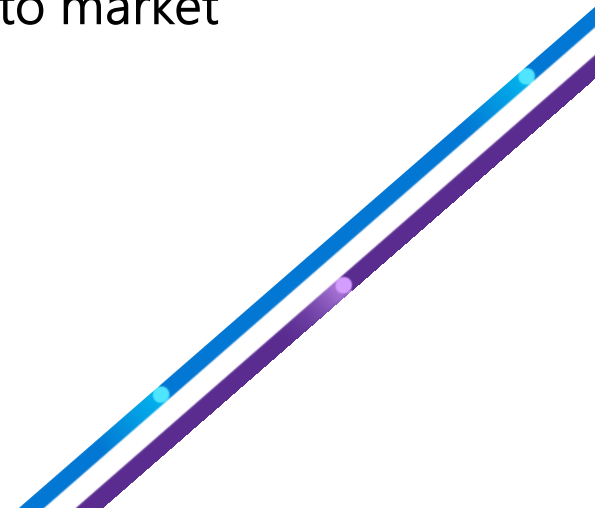
Dynamic scalability



More efficient use of resources



Faster time to market



# Stay Connected!

## Campus Lead

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