AWS Cloud Practitioner Training

We will begin shortly...

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Introduction

Anjani Phuyal

- MSc Computer and Network Security with Distinction (Middlesex university)
- Bachelor of Engineering in Electronics and communication

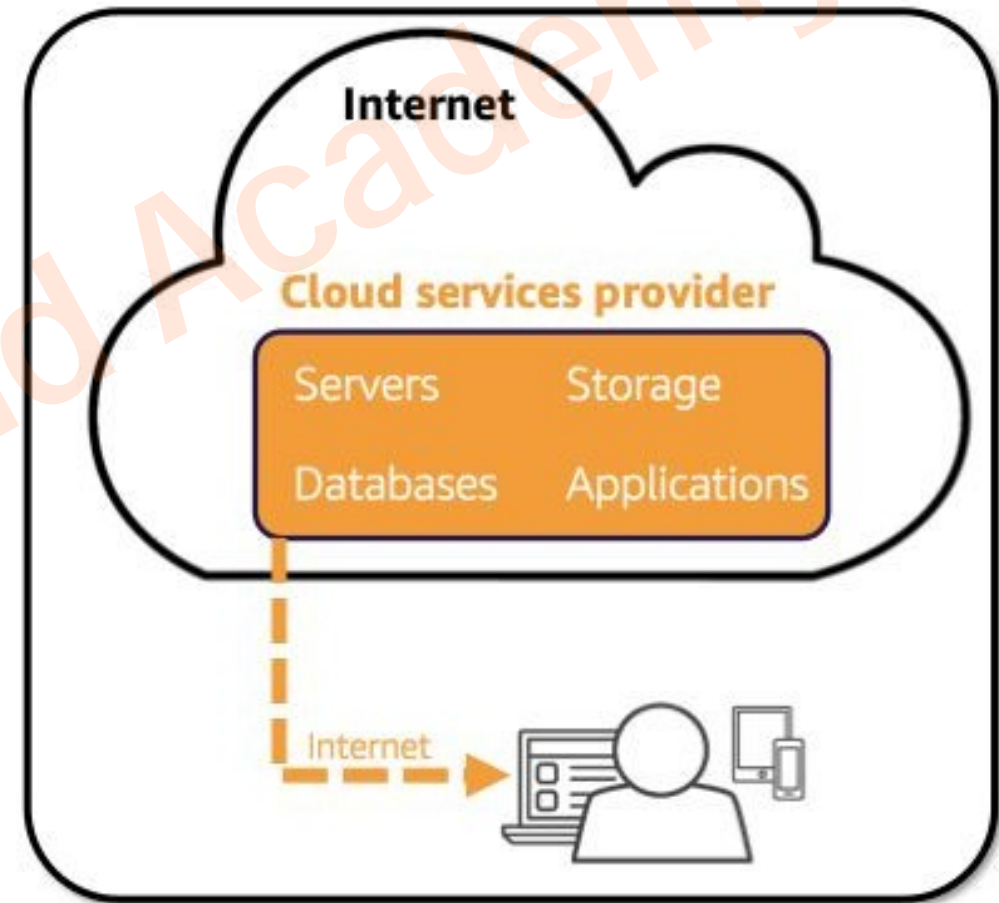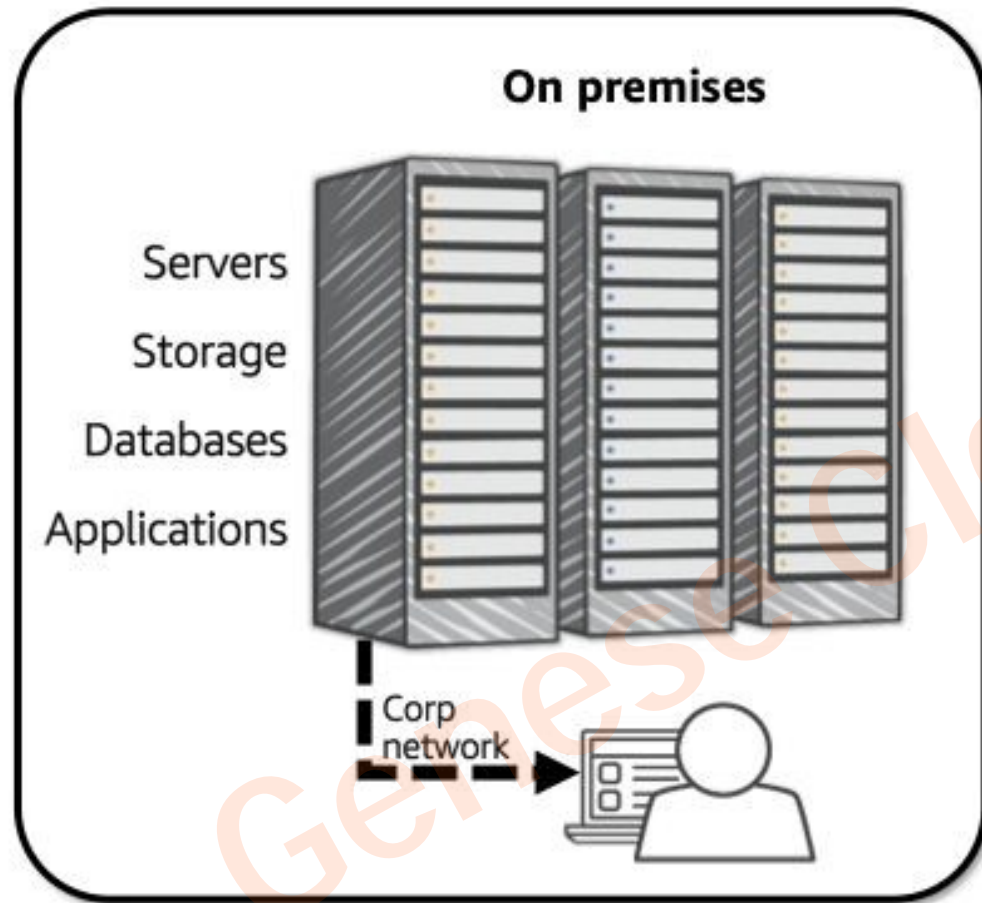# Some Feathers on my Wing

Agenda (30hrs)

- Introduction to the AWS Cloud
- Getting started with the Cloud
- Building in the Cloud
- Security
- Pricing Models
- Architecture

Labs:
- Amazon S3
- VPC and Launching Server
- Security and Trusted Advisor

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What is Cloud?

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What is the cloud?

On premises

Servers
Storage
Databases
Applications

Corp network

Internet

Cloud services provider

Servers   Storage
Databases   Applications

Internet

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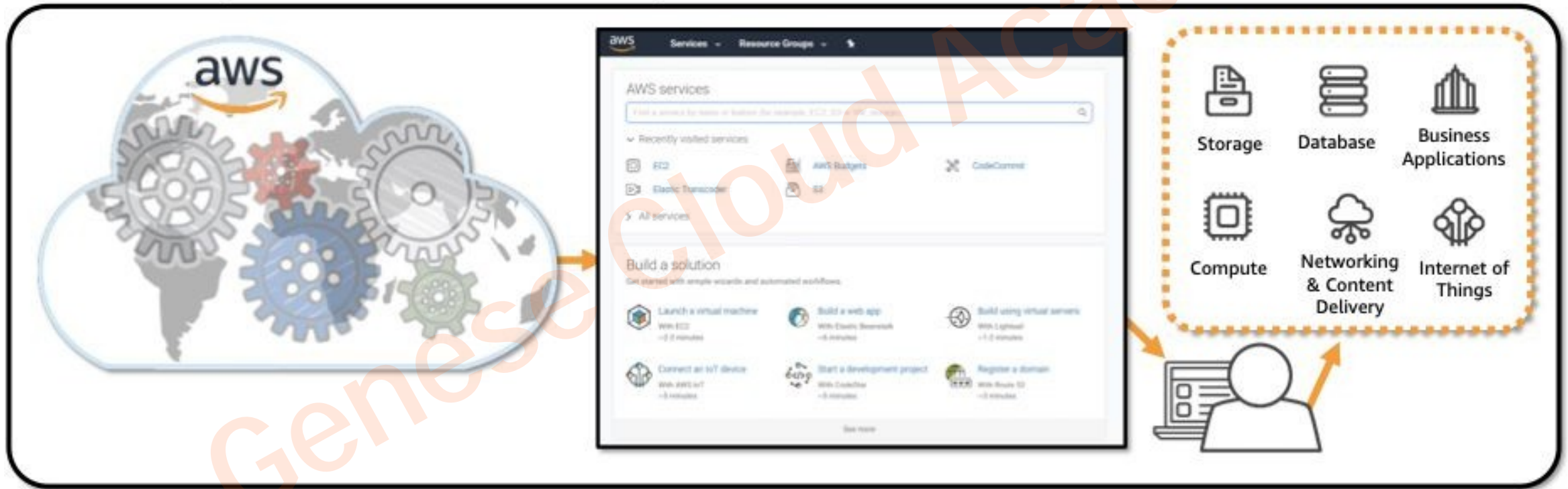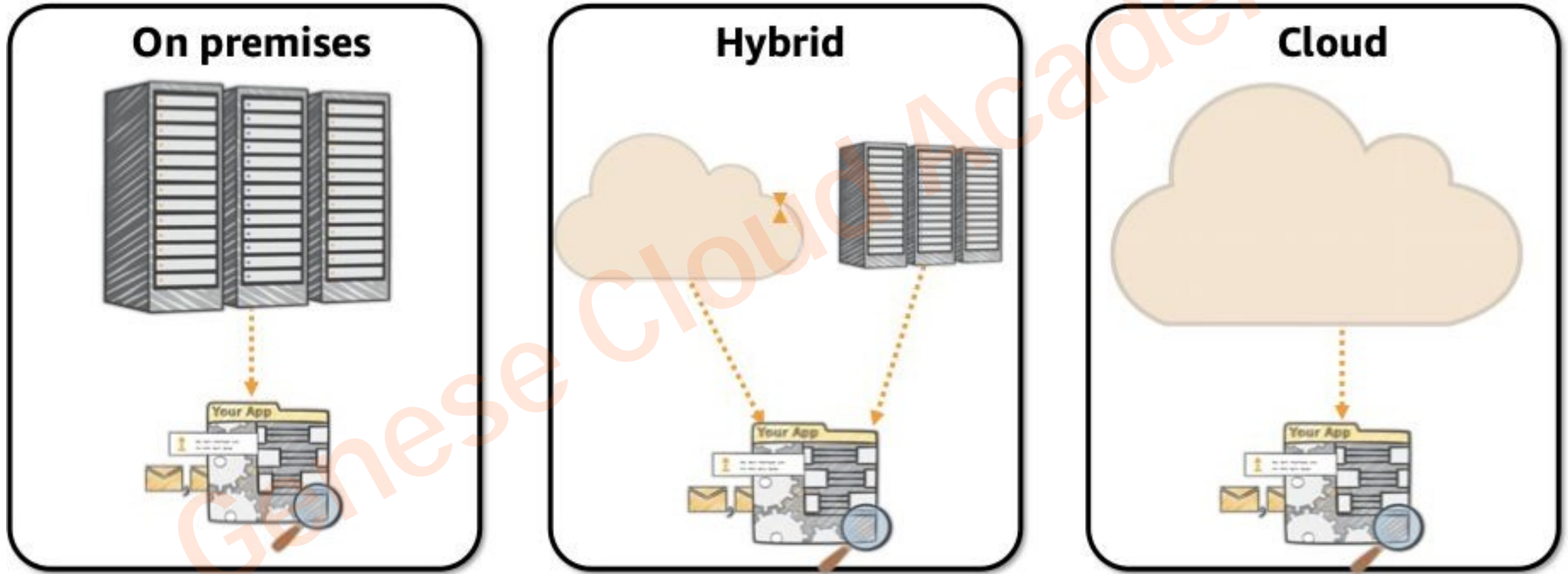CLOUD ACADEMY

How does it work?

- AWS owns and maintains the network-connected hardware
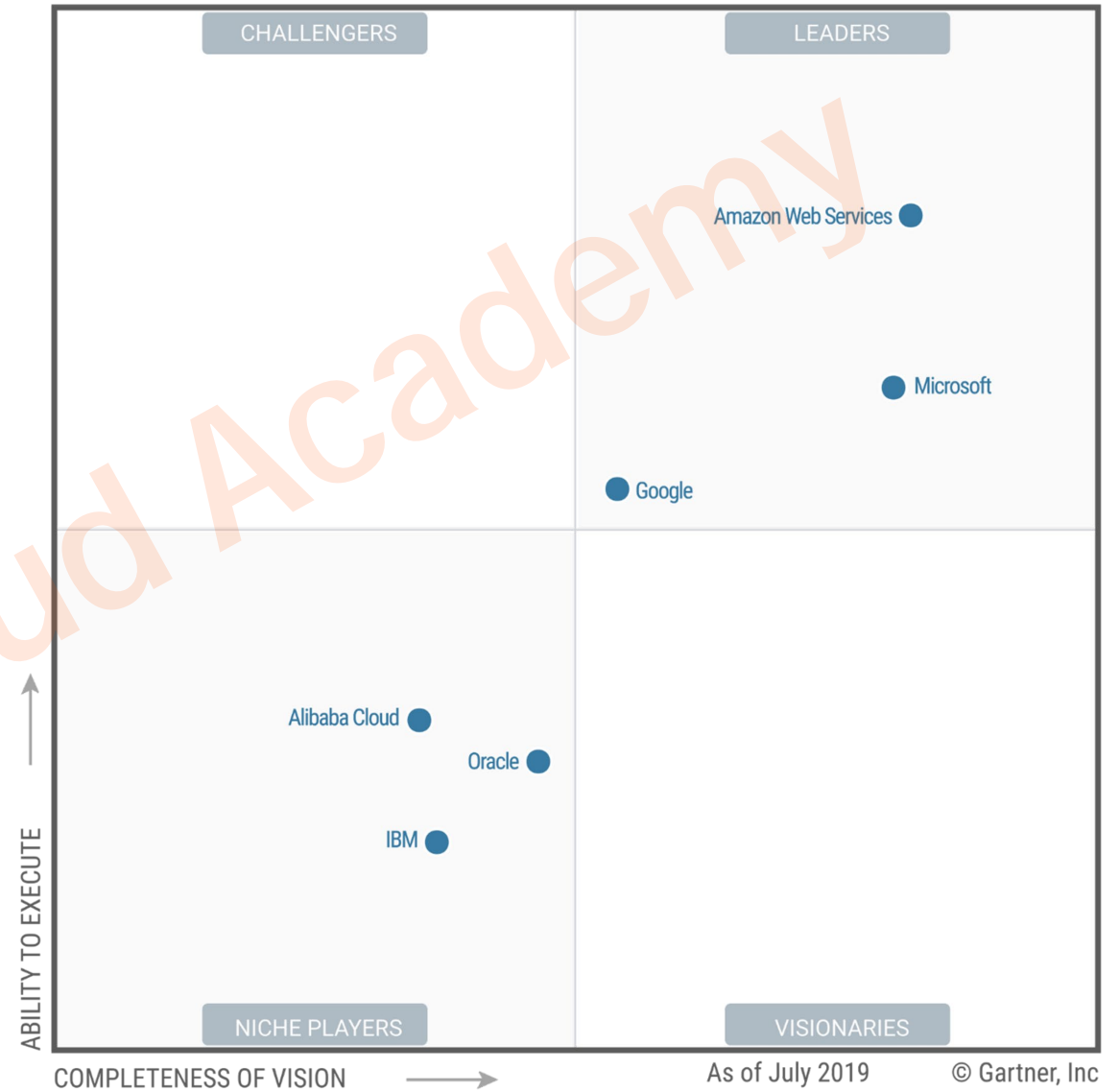- You provision and use what you need

Cloud deployment models

Gartner Magic Quadrant

Figure 1. Magic Quadrant for Cloud Infrastructure as a Service, Worldwide

Source: Gartner (July 2019)

Benefits of Cloud

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Trade capital expense for variable expense

Capital

Data center investment based upon forecast

Pay only for the amount you consume

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Massive economies of scale

Because of aggregate usage from all customers, AWS can achieve higher economies of scale and pass savings on to customers
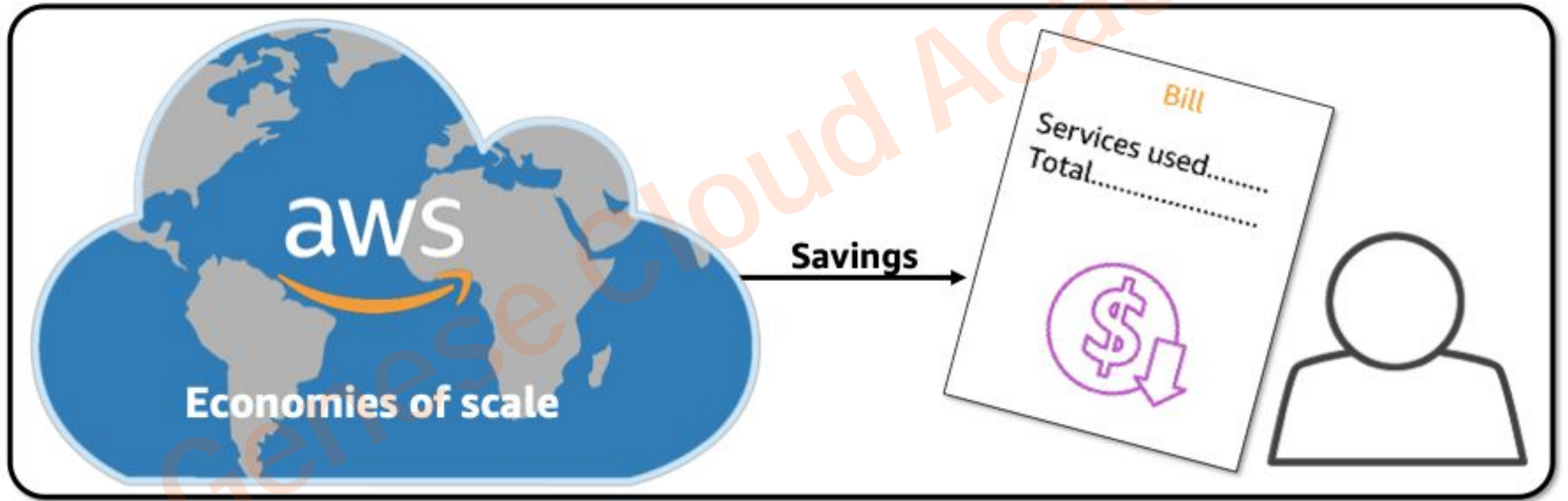
Stop guessing capacity

Overestimated server capacity

Underestimated server capacity
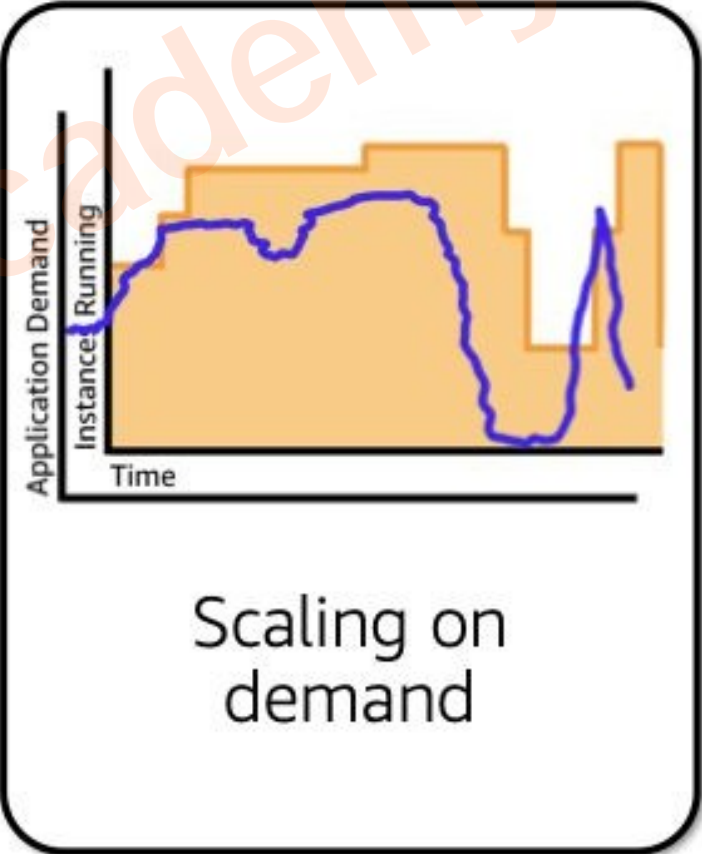
Scaling on demand

Increase speed and agility

Purchasing Request

	waiting
Management Approval	...
Finance Approval	...
PO# Received	...
Item Ordered	...
Order Pulled	...
Order Shipped	...
Order Delivered	...
Order Unpacked	

Launch

Weeks between wanting resources and having resources

Minutes between wanting resources and having resources

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Go global in minutes
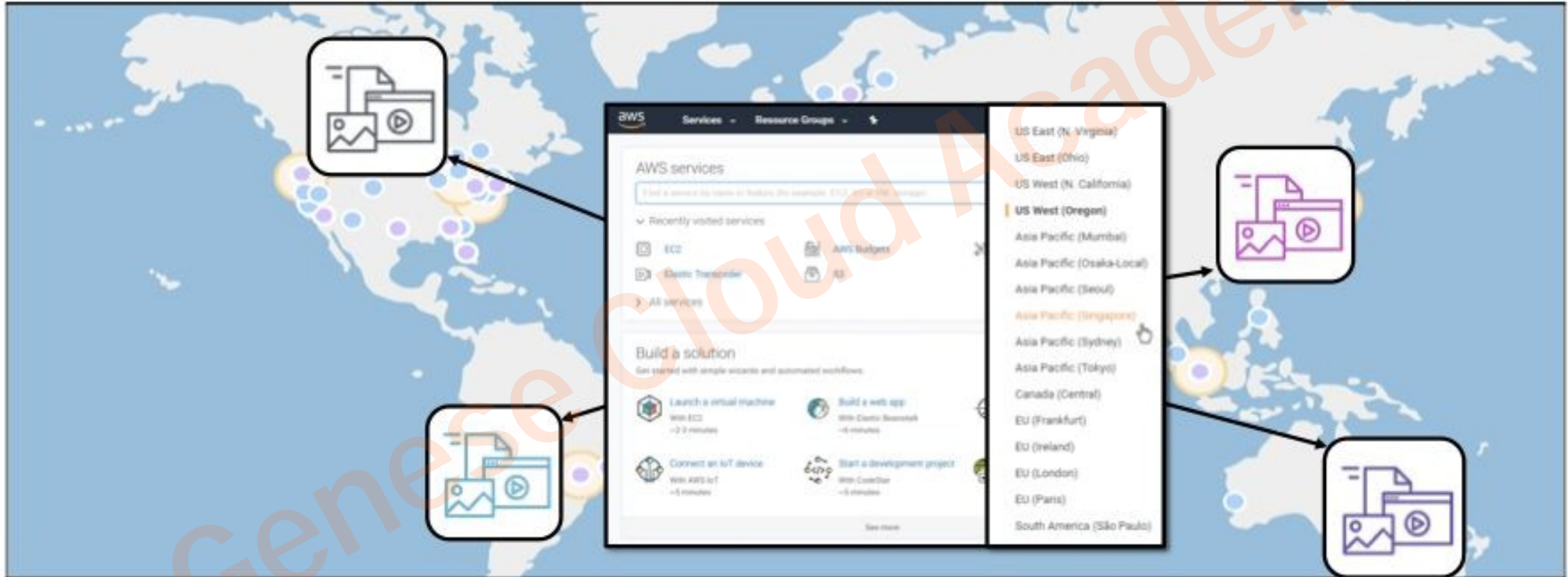
AWS security

- Keep your data safe
- Meet compliance requirements
- Save money
- Scale quickly

Types of Cloud Computing

Types of Cloud Computing

Infrastructure as a
Service (IaaS)

Platform as a Service
(PaaS)

Software as a
Service (SaaS)

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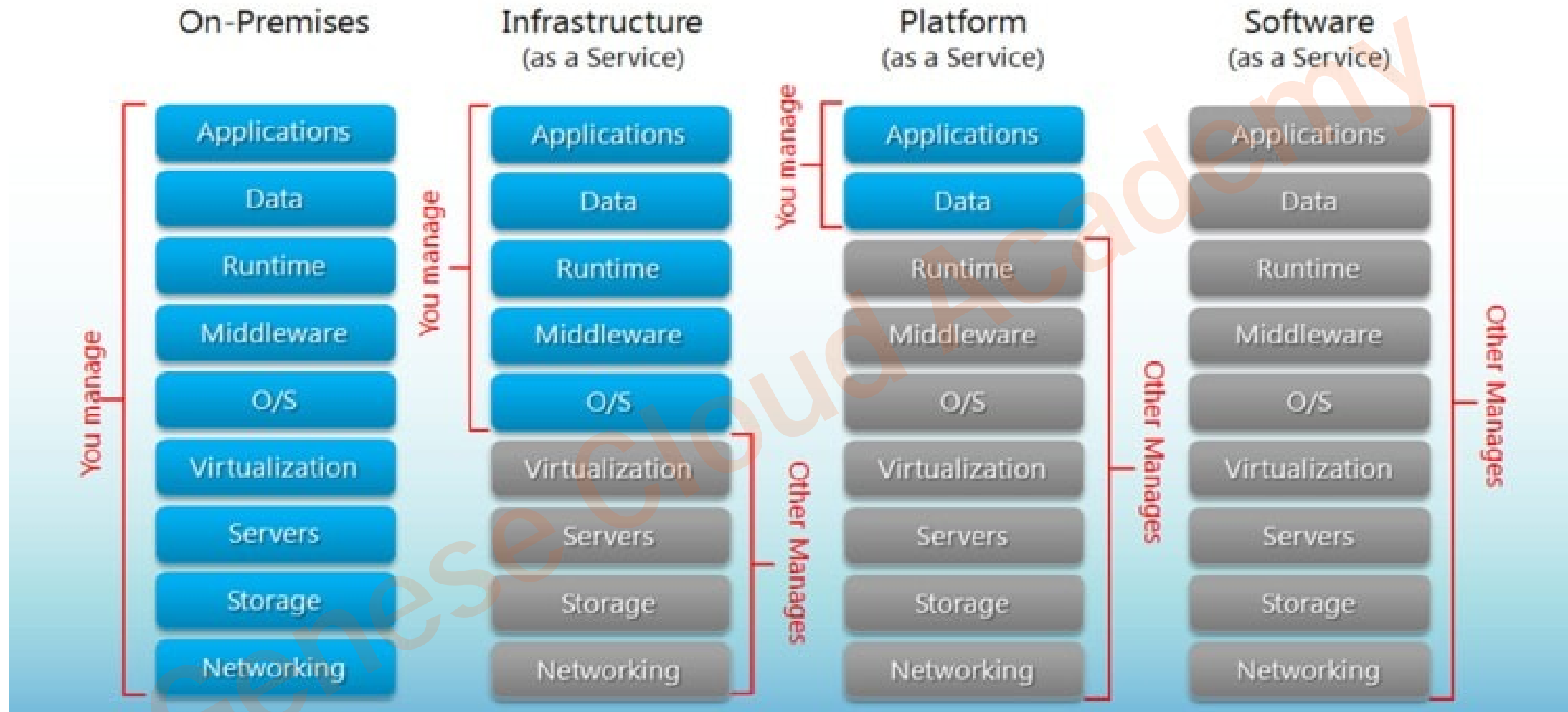
Types of Cloud Computing: Examples

1) IaaS Examples:

- AWS EC2, Rackspace
- Google Compute Engine (GCE)
- Digital Ocean

2) PaaS Examples:

- AWS Elastic Beanstalk
- Heroku
- Force.com, OpenShift

3) SaaS Examples:

- Google Apps
- BigCommerce
- Dropbox, MailChimp

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Pizza as a Service

Traditional On-Premises (On Prem)	Infrastructure as a Service (IaaS)	Platform as a Service (PaaS)	Software as a Service (SaaS)
Dining Table	Dining Table	Dining Table	Dining Table
Soda	Soda	Soda	Soda
Electric / Gas	Electric / Gas	Electric / Gas	Electric / Gas
Oven	Oven	Oven	Oven
Fire	Fire	Fire	Fire
Pizza Dough	Pizza Dough	Pizza Dough	Pizza Dough
Tomato Sauce	Tomato Sauce	Tomato Sauce	Tomato Sauce
Toppings	Toppings	Toppings	Toppings
Cheese	Cheese	Cheese	Cheese
Made at home	**Take & Bake**	**Pizza Delivered**	**Dined Out**

■ You Manage   ■ Vendor Manages

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Any Queries?

Walkthrough
(Account Creation)