

Introduction to Cloud Infrastructure

American Tamil Media
Academy



அமெரிக்கத்
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About

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What is **Cloud Computing**?



How big is Cloud?

Table 1. Worldwide Public Cloud Service Revenue Forecast (Billions of U.S. Dollars)

	2018	2019	2020	2021	2022
Cloud Business Process Services (BPaaS)	41.7	43.7	46.9	50.2	53.8
Cloud Application Infrastructure Services (PaaS)	26.4	32.2	39.7	48.3	58.0
Cloud Application Services (SaaS)	85.7	99.5	116.0	133.0	151.1
Cloud Management and Security Services	10.5	12.0	13.8	15.7	17.6
Cloud System Infrastructure Services (IaaS)	32.4	40.3	50.0	61.3	74.1
Total Market	196.7	227.8	266.4	308.5	354.6

BPaaS = business process as a service; IaaS = infrastructure as a service; PaaS = platform as a service; SaaS = software as a service

Note: Totals may not add up due to rounding.

Source: Gartner (November 2019)



Cloud Vendors



Google Cloud

Amazon Web
Service

Microsoft Azure

Google Cloud



Security

Is Cloud Secure?

Security is
Shared Responsibility



Powered by Cloud
Salesforce, Shutterfly,
Workday, ADP,

Dropbox, Udemy,
Social Media, Zoom
eCommerce,
Payment Solutions



Background

History

<https://www.bcs.org/content-hub/history-of-the-cloud/>

Blesson Varghese, Assistant Professor at
Queen's University Belfast

The foundation era - 1960s

The inception - 2001-04

Future

- Hybrid Cloud
- Internet of Things (IoT)
- Edge Computing



Cloud Based Service Types

SaaS - Software as a Service

PaaS - Platform as a Service

IaaS - Infrastructure as a Service

DBaaS - Database as a Service



Cloud Resources

Storage - Amazon S3, Google Drive

Compute - EC2, Compute Engine

Network - Virtual Private Cloud



Questions?

