

## CLOUD COMPUTING

We are going to Explore on :

- The Essence of Cloud Computing
- Necessity of Business Moving to Cloud computing
- The Positives and the Negatives
- Financial Analysis
- State of the Industry
- Service Comparison of the Giants
- Top Cloud Technologies
- Trends in 2021
- Example Applications
- State of Cloud Expertise
- Top Carrier Opportunities
- Skills to develop
- Certifications
- Events and conferences

# Technology Innovation Hub



## CLOUD COMPUTING

Lift and Shift your Application - Save Time and Money



**NIST**

National Institute of  
Standards and Technology  
U.S. Department of Commerce

Special Publication 800-145

## The NIST Definition of Cloud Computing



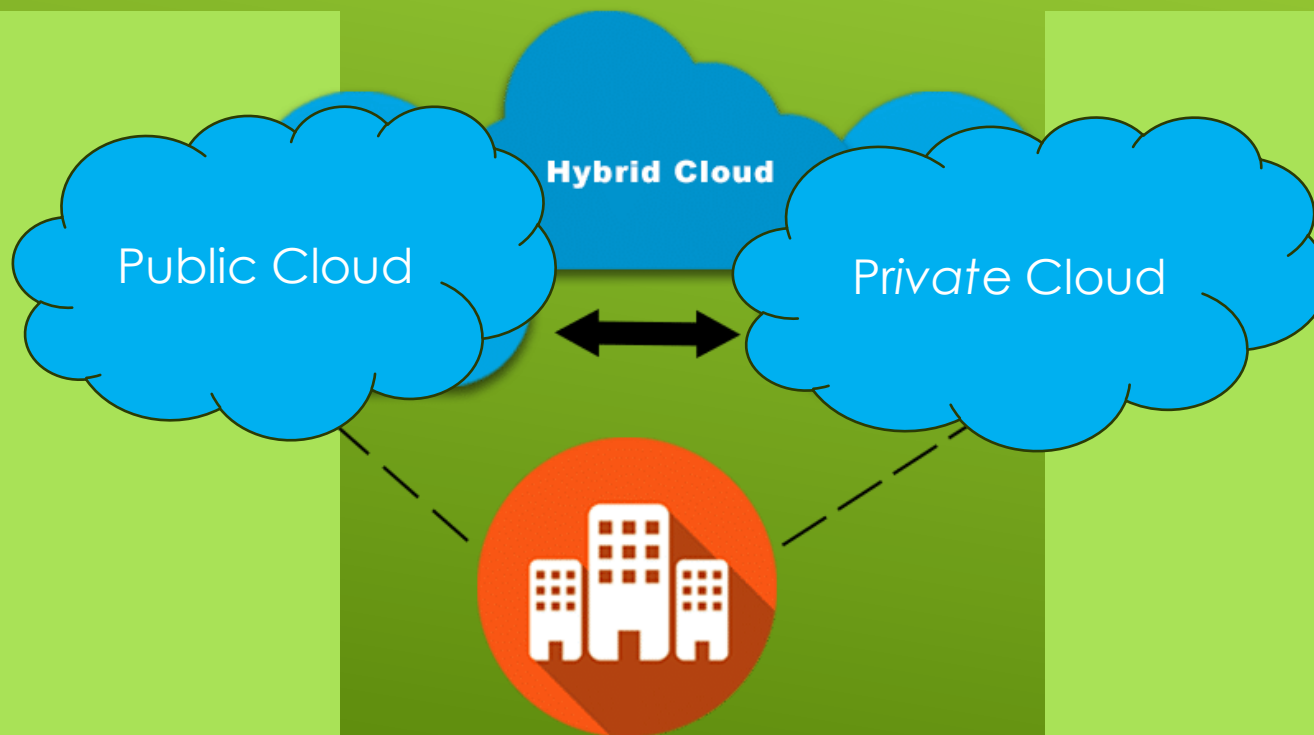
# What is Cloud Computing ?



Simply put, 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. You typically pay only for cloud services you use, helping you lower your operating costs, run your infrastructure more efficiently, and scale as your business needs change.

[Azure](#)

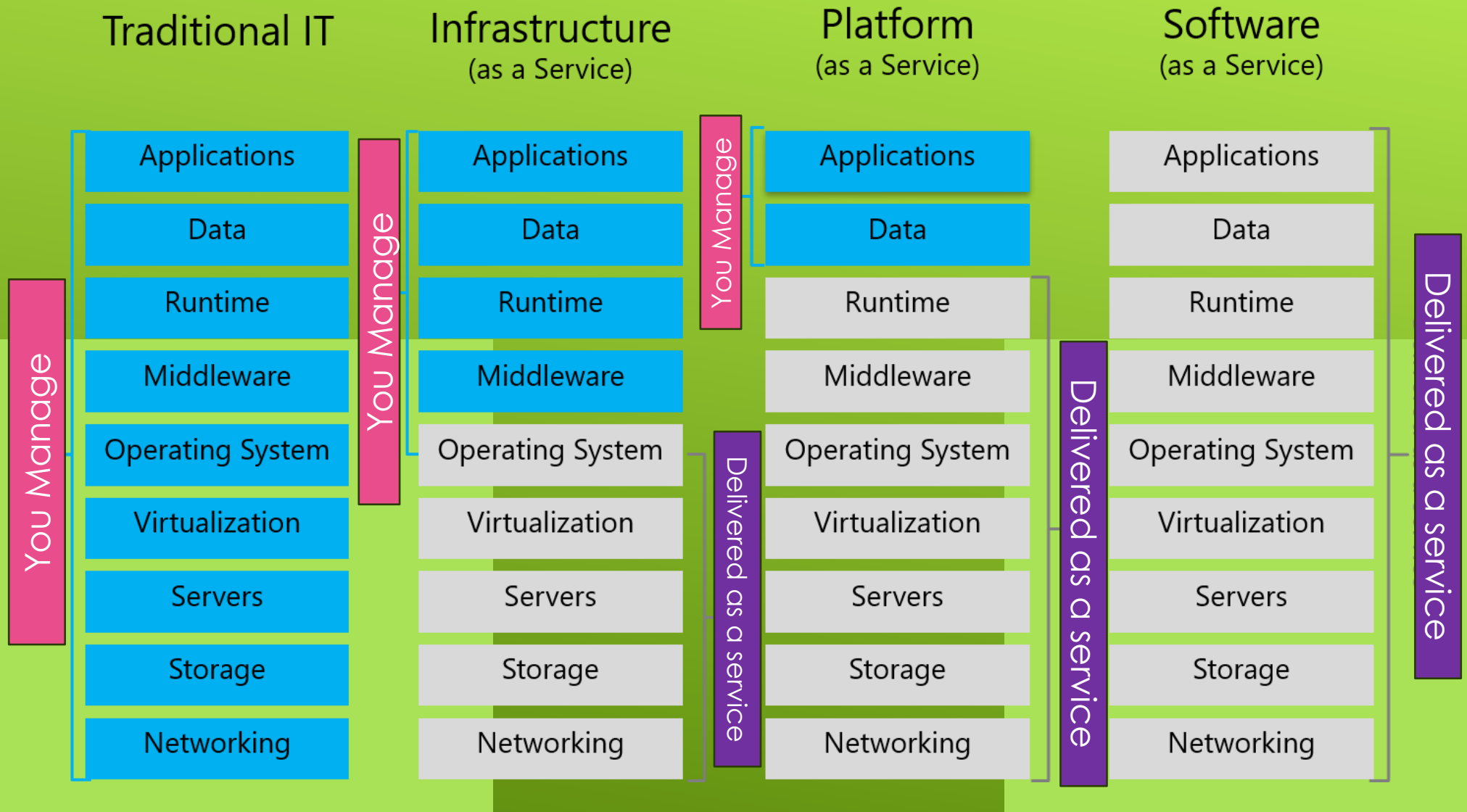
## Deployment Models



# What is Cloud Computing ?



## Service Models



## Serverless computing

Overlapping with PaaS, serverless computing focuses on building app functionality Based on Event driven Architecture only using the resource when the required function triggers. The cloud provider handles the setup, capacity planning, and server management for you.

# Why Businesses are Moving to Cloud



1

## Software and Hardware Refresh Cycles

[horizontechnology.com](http://horizontechnology.com)

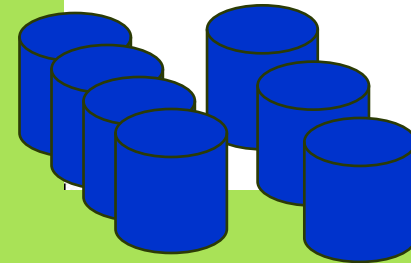
3

Security

RISK!!

2

Capacity Requirement

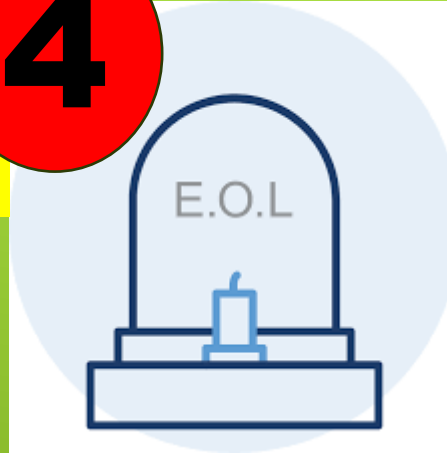


# Why Businesses are Moving to Cloud ?



4

End of Life Events



5



6



Business Acquisitions

7



# Benefits of Moving to Cloud



1

Scalability



2

Cost Savings

3

Competitive Edge



4

Security





# Benefits of Moving to Cloud



5

## Sustainability



6

## Insights



7

## Quality Control



8

## Business Continuity





# Benefits of Moving to Cloud



9

Mobility



10

Increased Collaboration



11

Loss Prevention



# The Few Negatives



- ☐ Depends on internet connection
- ☐ Risk of data confidentiality
- ☐ The level of security
- ☐ Compliance
- ☐ Vulnerable in the event of an attack
- ☐ Vendor Lock-in
- ☐ Support Issues
- ☐ Account or service Hijacking
- ☐ Data loss or Theft
- ☐ Data Leakage
- ☐ Insecure Interfaces and APIs

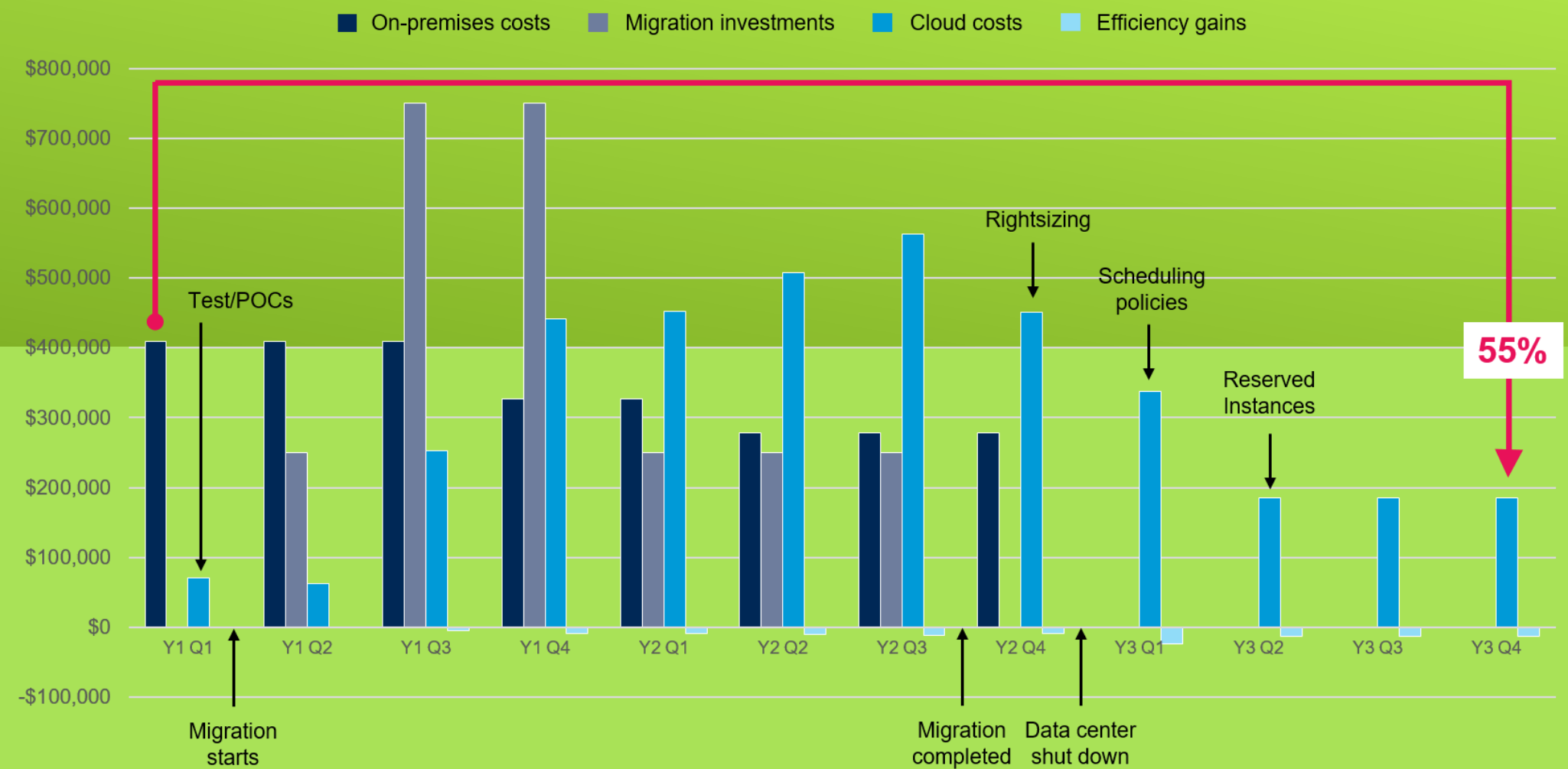


**But Moving to  
Cloud may be  
inevitable !!**

# Calculating the Cost for the Business



## Example TCO of Migration to Cloud IaaS Over Three Years



### TCO Calculators

<a href="#">Azure</a>	<a href="#">AWS</a>
<a href="#">Oracle</a>	<a href="#">Google</a>
<a href="#">IBM</a>	<a href="#">Alibaba</a>

Gartner - Example TCO



AWS  
Securing Top  
Spot for the  
10<sup>th</sup>  
Consecutive  
year

## Magic Quadrant for Cloud Infrastructure and Platform Services



As of August 2020

© Gartner, Inc

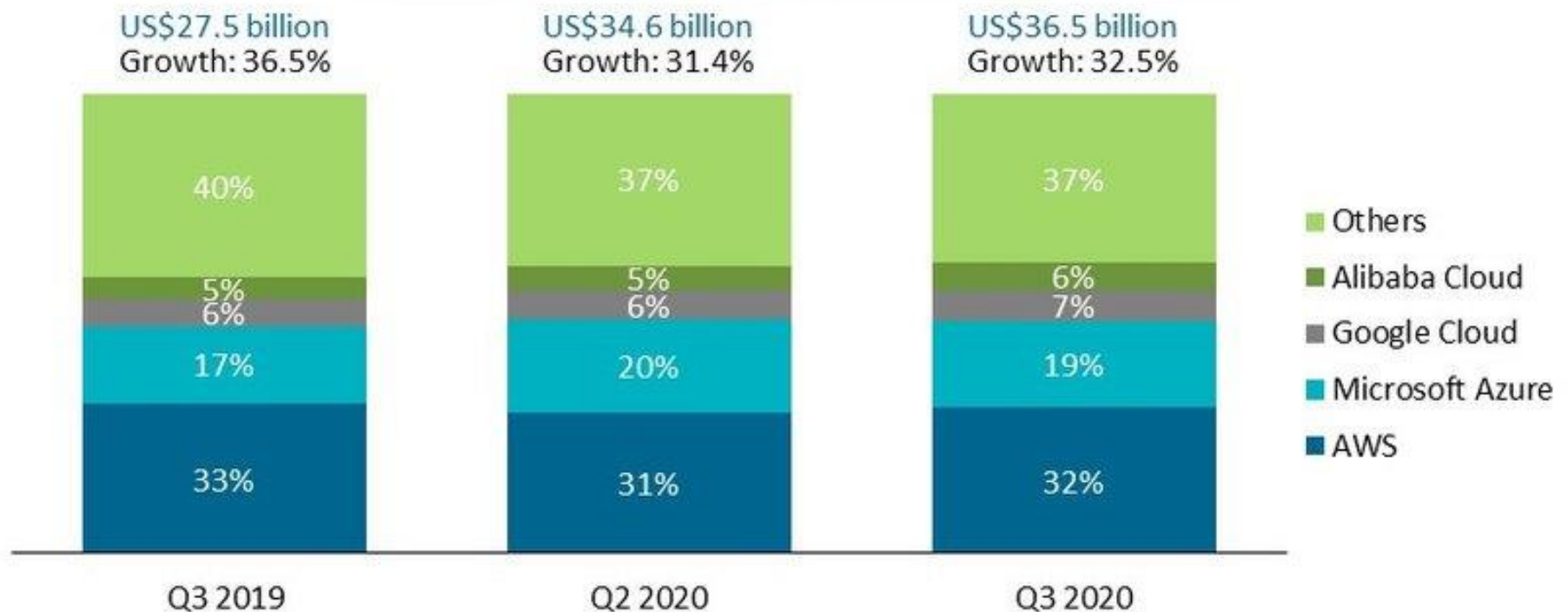
# The Dominance of the Two Giants



Azure and AWS combined control more than **50%** of worldwide cloud infrastructure services spend.

## Top four providers collectively grow 40% in Q3

Worldwide cloud infrastructure services spend



Source: Canalys estimates, October 2020



**The push from the pandemic to work remotely,** Gartner forecasts that the number of users for DaaS will grow by over 150% between 2020 and 2023.

## Compute Service

## Serverless Service



SERVICE	AWS	AZURE	GCP
Virtual servers	Elastic Compute Cloud (EC2)	Virtual Machines	Compute Engine
PaaS, deploying apps	Elastic Beanstalk AWS Lightsail	Azure App Service	App Engine Environment
Autoscaling	Auto Scaling	Azure VM Scale Sets	Autoscaling
VMware Cloud	VMware Cloud on AWS	Azure VMware Solution	VMware Cloud on GCP

FEATURE	AWS	AZURE	GCP
Serverless Compute Offerings	Lambda, Fargate, Aurora Serverless	Serverless Kubernetes, Functions and application environments	Cloud Run, Cloud Functions, App Engine
Languages supported	Node.js, Python, Java, Ruby, C#, Go and PowerShell	C# , F # , Java JavaScript , python , PowerShell , TypeScript	.NET Core , Ruby , Node js , Go , Python ,
Pricing	<a href="#">AWS pricing</a>	<a href="#">Azure Pricing</a>	<a href="#">Google Pricing</a>
Logs	<a href="#">CloudWatch</a>	<a href="#">Azure - Logs</a>	<a href="#">Google - Logs</a>

## AWS vs Azure vs GCP Service Comparison

## Container Service

## Security Service

SERVICE	AWS	AZURE	GCP
Managed container services	EC2 Container Service (ECS) Amazon Kubernetes Service (EKS)	Azure Container Service (AKS)	Google Kubernetes Engine
Docker container registry	Elastic Container Registry (ECR)	Container Registry	Container Registry
Serverless container services	AWS Fargate	Azure Container Instances (ACI)	Google Cloud Run
Serverless/Function-as-a-Service	AWS Lambda	Azure Functions	Google Cloud Functions

SERVICE	AWS	AZURE	GCP
Authentication and authorization	Identity and Access Management (IAM)	Azure Active Directory	Google Cloud Identity and Access Management (IAM)
Web firewall	AWS Web Application Firewall	Azure Application Gateway Azure Firewall	Firewall Insights
Security assessment	Amazon Inspector AWS Security Hub	Azure Security Center	Cloud Security Command Center
Threat detection and monitoring	Amazon GuardDuty	Azure Advanced Threat Detection	Cloud Armor



# AWS vs Azure vs GCP Service Comparison



## Storage Service

SERVICE	AWS	AZURE	GCP
<b>Object storage</b>	Simple Storage Service (S3)	Azure Blob Storage	Google Cloud Storage
<b>Block storage</b>	Elastic Block Store (EBS)	Azure Disk Storage	Google Persistent Disks
<b>Infrequent access/archive storage</b>	S3 Glacier, Deep Archive, S3 Infrequent Access Standard and one-Zone IA	Azure Archive Storage Azure Cool Blob Storage	Google Cloud Storage Nearline, Coldline, and Archive
<b>File storage</b>	Elastic File System (EFS)	Azure Files	Google Cloud Filestore
<b>Bulk data transport</b>	AWS Import/Export Service AWS Snow Family	Azure Import/Export Service Azure Data Box	Storage Transfer Service
<b>Backup storage</b>	AWS Backup	Azure Backup	Google Cloud Storage
<b>Disaster recovery</b>	Disaster Recovery	Disaster Recovery Cookbook	Site Recovery

## Database Service

SERVICE	AWS	AZURE	GCP
<b>Managed relational database as a service</b>	<u><a href="#">Amazon RDS</a></u>  <u><a href="#">Amazon Aurora</a></u>	<u><a href="#">SQL Managed Instances</a></u>  <u><a href="#">Azure SQL Database</a></u>	<u><a href="#">Cloud SQL</a></u>  <u><a href="#">Cloud Spanner</a></u>
<b>With serverless options</b>			
<b>No SQL database as a service</b>	<u><a href="#">Amazon DynamoDB</a></u>	<u><a href="#">Azure Cosmos DB</a></u>	<u><a href="#">Cloud Bigtable</a></u>
<b>In-Memory database services</b>	<u><a href="#">Amazon ElastiCache</a></u>	<u><a href="#">Azure Cache for Redis</a></u>	<u><a href="#">Memorystore</a></u>
<b>Document database services</b>	<u><a href="#">DocumentDB</a></u>	<u><a href="#">Azure Cosmos DB</a></u>	<u><a href="#">Filestore</a></u>
<b>Data warehouse services</b>	<u><a href="#">Amazon Redshift</a></u>	<u><a href="#">Azure Synapse</a></u>	<u><a href="#">BigQuery</a></u>
<b>Data analysis services</b>	<u><a href="#">Amazon Athena</a></u>	<u><a href="#">Azure Synapse</a></u>	<u><a href="#">BigQuery</a></u>
<b>Ledger services</b>	<u><a href="#">Amazon QLDB</a></u>	<u><a href="#">Azure Workbench</a></u>	<u><a href="#">Cloud Spanner</a></u>
<b>Graph database services</b>	<u><a href="#">Amazon Neptune</a></u>	<u><a href="#">Neo4j</a></u> (Azure Partner)	<u><a href="#">Cloud Bigtable</a></u>

# AWS vs Azure vs GCP Service Comparison



## Network Service

SERVICE	AWS	AZURE	GCP
<b>Global Content Delivery Networks (CDN)</b>	Amazon CloudFront	Azure Content Delivery Network (CDN)	Google Content Delivery Network (CDN)
<b>Direct connection</b>	AWS Direct Connect	Azure ExpressRoute	Google Cloud Interconnect
<b>DNS</b>	Amazon Route 53	Azure DNS Traffic Manager	Google Cloud DNS
<b>Load balancing</b>	Elastic Load Balancing (ELB)	Azure Load Balancer Application Gateway	Cloud Load Balancer
<b>Virtual private cloud network</b>	Virtual Private Cloud (VPC)	Virtual Networks (VNet)	Google Virtual Private Cloud (VPC)

## Support & Pricing

PLAN	AWS	AZURE	GCP
Self Service	<a href="#">Documentation</a> <a href="#">Discussion Forum</a>	<a href="#">Azure Documentation</a> <a href="#">Community Support</a>	<a href="#">Documentation</a> <a href="#">Google community</a>
Support Plans	<a href="#">Support Plans</a>	<a href="#">Support Plans</a>	<a href="#">Support Plans</a>
Pricing	<a href="#">Free Tier</a> <a href="#">Pricing</a> <a href="#">Calculator</a> <a href="#">Pay As You Go</a> <a href="#">Spot Instances</a> <a href="#">Preemptible-Virtual Machines</a> <a href="#">Reserved Instances/</a>	<a href="#">Free Tier</a> <a href="#">Pricing</a> <a href="#">Pay As You Go</a> <a href="#">Calculator</a> <a href="#">Reserved Instances</a> <a href="#">Spot Virtual Machines/</a> <a href="#">Hybrid-Benefit</a> <a href="#">Dev-Test Pricing</a>	<a href="#">Free Tier</a> <a href="#">Product Pricing</a> <a href="#">Calculator</a> <a href="#">Pay As You Go</a> <a href="#">Sustained-use-discounts</a> <a href="#">Committed-use-discounts</a>

# Cost Comparison Scenario








Which provider is cheaper ?

[Aws Calculator](#)

[Azure Calculator](#)

[Cloudorado](#)

## Guidance Framework for Managing and Optimizing Costs of Public Cloud IaaS and PaaS

 <b>Plan</b>	Define Requirements	Architect With Cost in Mind	Choose Pricing Models	Forecast Consumption	Deploy Pilot Application	Establish Budget
 <b>Track</b>	Design Native Hierarchy	Implement Tagging Strategy	Allocate Costs of Shared Resources	Define Metrics to Track	Alert on Anomalies	Implement Chargeback and Showback
 <b>Reduce</b>	Dispose Unused Resources	Schedule Services	Rightsize Allocation-Based Services	Leverage Discount Models	Upgrade Instance Generation	Establish a DevOps Feedback Loop
 <b>Optimize</b>	Use Preemptible Instances	Set Up Data Storage Life Cycle Policies	Implement Horizontal Autoscaling	Balance Usage of Consumption-Based Services	Use Serverless Technologies	Modernize Your Application for PaaS
 <b>Evolve</b>	Adopt Tooling	Onboard New Providers	Broker Cloud Services	Shift Budget Accountability	Incentivize Financial Responsibility	Correlate Costs to Business Value

Source: Gartner  
ID: 465208\_C



# Top Cloud Technologies 2021



## Edge

This architecture involves positioning processors, data storage, and servers as close as possible to the users who need them the most. Further it is extended to the network functionality, resulting in minimal latency, easier maintenance, and a smaller carbon footprint.

## SASE

Secure Access Service Edge (pronounced “sassy”) is a network architecture that improves remote access by combining software-defined wide area network (SD-WAN) functions with cloud-native network security assets. These assets include secure web gateways, firewalls as a service, zero-trust network access, and cloud access security brokers. WFH is pushing SASE.

## Serverless

Often referred to as Function as a Service (FaaS) or Event Driven, serverless computing lets developers write and deploy code without concerning themselves with provisioning cloud resources. Infrastructure is provided through automation.

## Orchestration

More the number of interconnected services more the autoscaling required. With the high demanding nature of quality deliverables, the orchestrations platform has big role to play in terms of managing large number of services.

# Top Cloud Technologies 2021



## Multicloud

Due to competitiveness and heavy demand between services offered by different cloud provides , it has caused bridging between providers benefiting the small providers as well.

## Cloud Migration with Data Privacy

As the WEH workload went high due to the pandemic the privacy of data when moving to cloud also became very important. The technologies involving Encryption and consumer privacy will be in demand.

# Cloud Computing Example which will bring the world at our fingertips



## SAAS

### ATLASSIAN

**Projection @ Industry:** The company's line of products include many of the most widely used SaaS platforms across industries, including Jira, Confluence, Bitbucket, Trello and OpsGenie.

### ZOOM

**Projection @ Industry :** It is all about Virtual meetings. Uber, Workday , Service Now and Ticketmaster all use Zoom to boost collaboration between teams and store meetings for future reference.

### Microsoft Office 365

cloud-based Microsoft Office 365 dramatically expands the Office suite's parameters. Users now may create, edit and share content from wide range of devices including PC, Mac, iOS, Android or Windows device in real-time, connect with colleagues and customers across a range of tools from email to video conferencing and leverage a range of collaborative technologies supporting secure interactions both inside and outside of the organization.

### Box

### Dropbox

### HubSpot

### Spotify

### Orderhive

### Google Apps

### Google G Suite

### Netflix

### Splunk



# Cloud Computing Example which will bring the world at our fingertips



## PAAS

### ACQUIA

**Projection @ Industry :** Johnson & Johnsons , Whole Foods, IBM, the BBC and Panasonic use Acquia's Cloud.

### Heroku

**Projection @ Industry :** Heroku provides platform for very large list of well-known customers Thinkmd ,Yabota, Lyft, Soundcloud, Macy's, Charity: Water and Toyota.

### Google App Engine

### OpenShift

### Cloudways

### Microsoft Azure

### IBM Cloud Foundry

### Zoho Creator

### AWS Lambda

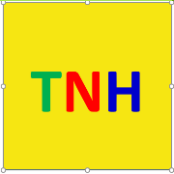
### ENGINEYARD

### VIMEO

### Oracle Cloud Platform

### SAGGEZZA

### Wasabi



# Cloud Computing Example which will bring the world at our fingertips



## BIGDATA Analytics

### SPINS

**Projection @ Industry :** SATORI, which gives brands and retailers an in-depth look at nutrition and allergen information for natural food products via the cloud.

### DATADOG

**Projection @ Industry :** features more than 400 built-in integrations and powerful dashboards for monitoring the entire infrastructure, making Datadog an unparalleled platform for enterprise-level visibility..

### NETFLIX: ANALYTICS

### HERE TECHNOLOGIES: LIVE MAPS FOR SELF-DRIVING CARS

### TEMPUS: PERSONALIZED ONCOLOGY

### MARKETING EVOLUTION: HYPER-PERSONALIZED MARKETING

### AWAKE SECURITY: BRAIN-LIKE SECURITY SAVVY

### SPLUNK: REAL-TIME DATA MONITORING

# Cloud Computing Example which will bring the world at our fingertips



## Data Governance & Cyber Security

### CARBONITE

**Projection @ Industry :** features more than 400 built-in integrations and powerful dashboards for monitoring the entire infrastructure, making Datadog an unparalleled platform for enterprise-level visibility..

### ZSCALER

**Projection @ Industry :** Protects virtualized environments both locally and in the service provider's own cloud.

### RED CANARY

**Projection @ Industry :** Risk mitigation company Kroll chose Red Canary to power its CyberDetectER tool, which is used to detect and quickly respond to credible cyber threats on servers and laptops.

### FORCEPOINT

### EXTRAHOP

### PING IDENTITY

### CA TECHNOLOGIES

### PALO ALTO NETWORKS

### JUMPCLOUD

### ONAPSIS

### ICRYPTO

### CROWDSTRIKE

# Oracle Cloud Infrastructure Gen 2



It is Not about Automation but Autonomous

The Zoom logo in blue lowercase letters.

**Millions of Concurrent meetings  
run on Oracle Cloud Infrastructure**

**Moving 7 Petabytes of  
data per day**

The McAfee logo, consisting of a red shield icon followed by the word 'McAfee' in red.

**McAfee ESM Cloud handles up to 500000  
events per second with cost savings of 75  
percent on Oracle Gen 2 Cloud**

Oracle Autonomous Database

**Nothing to Learn – Nothing to Do**

- Automatic Provisioning
- Automatic Configuration
- Automatic Tuning while running
- Automatic Encryption always on
- Automatic Security Patching while running
- Automatic Elastic Scaling while running
- Automatic Backup, Failover, Recovery

The SIEMENS logo in teal uppercase letters.

The SKY logo in red italicized uppercase letters.

Leading Telecom Provider in Brazil

The 8x8 logo in red bold font.

**Moved from AWS to Oracle Gen2 Cloud  
Saved 80% on Network Egress Costs**

The TNH logo in red, green, and blue letters.



# Cloud Computing Trends in 2021



**Edge Is the New Cloud**

**AI and ML Will Revolutionize Cloud Computing**

**Increased Demand For Private, Hybrid Cloud Multi-Cloud And Joint Cloud Provider Offerings**

**Rise of The Cloud Native Technologies**

- ✓ **Containerization**
- ✓ **Going Serverless**
- ✓ **Orchestration Platforms**

**The Growth Of SASE Adoption**

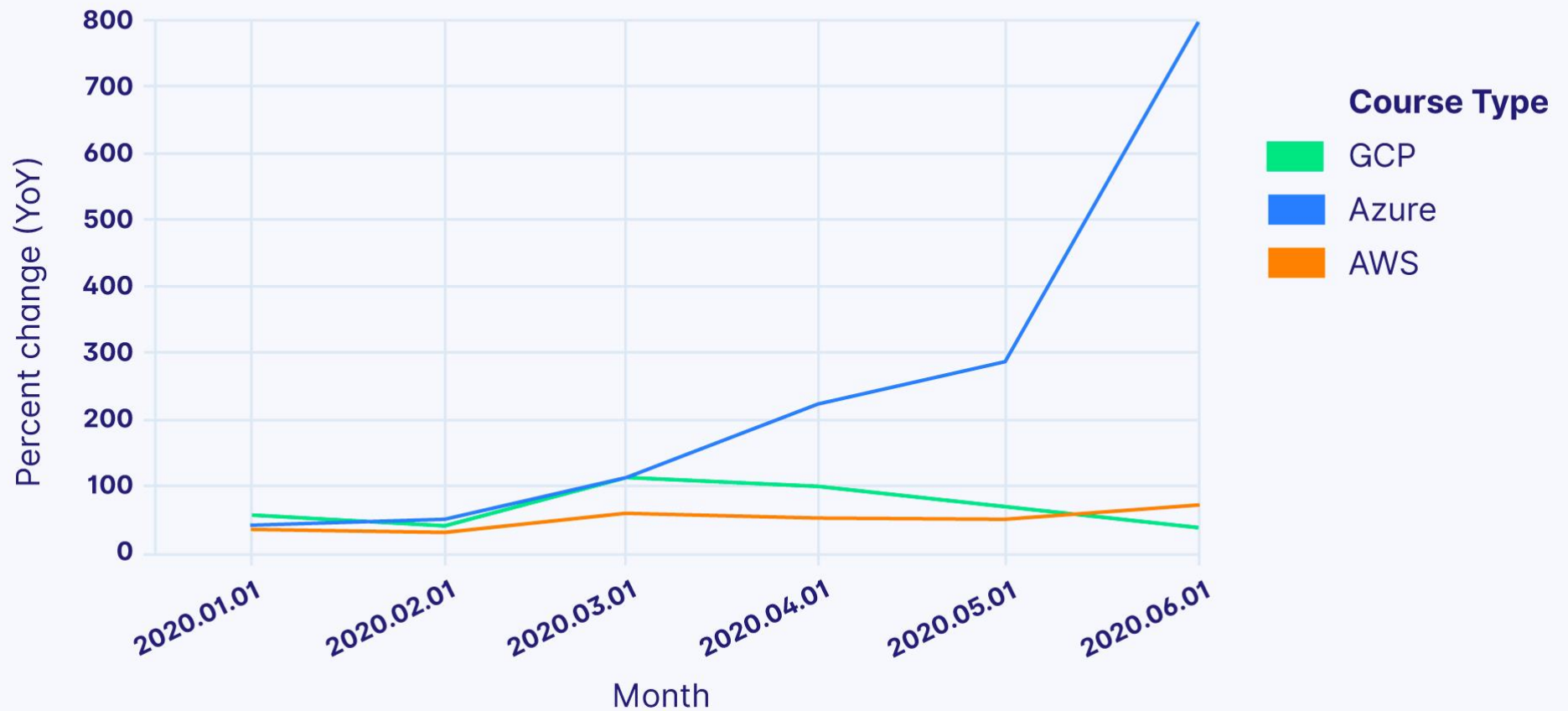
**Increased need for, Data security, privacy, and Regulations**

**Virtual Desktops May Be The Workplace of The Future - Google offers this through Chromebook devices.**

# State of the Cloud Expertise - I



GROWTH IN TRAINING TIME BY CLOUD PROVIDER

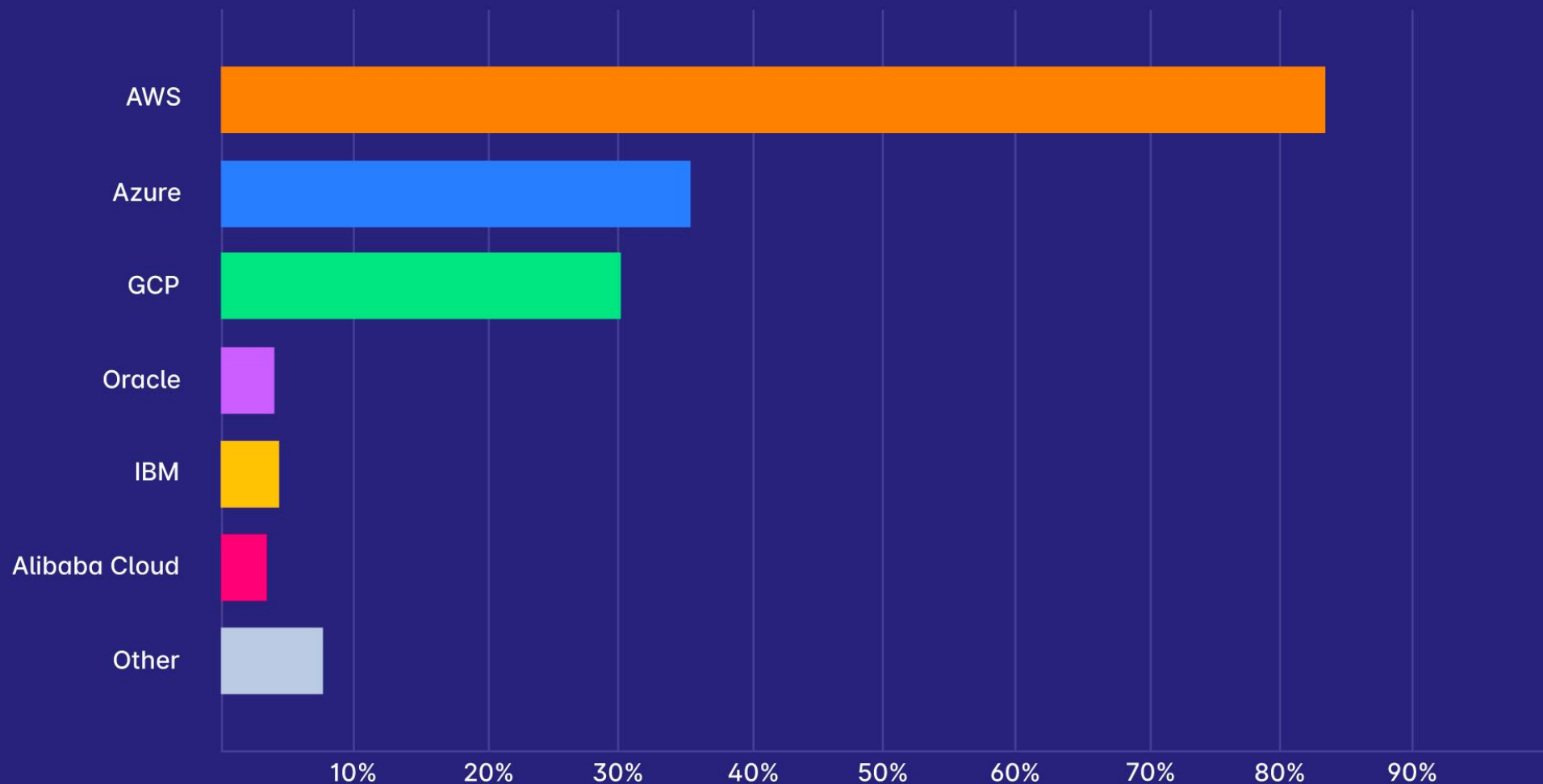


[Ref : devops.com](https://devops.com)

# State of the Cloud Expertise - II



FIGURE 1 - CURRENT CLOUD EXPERTISE

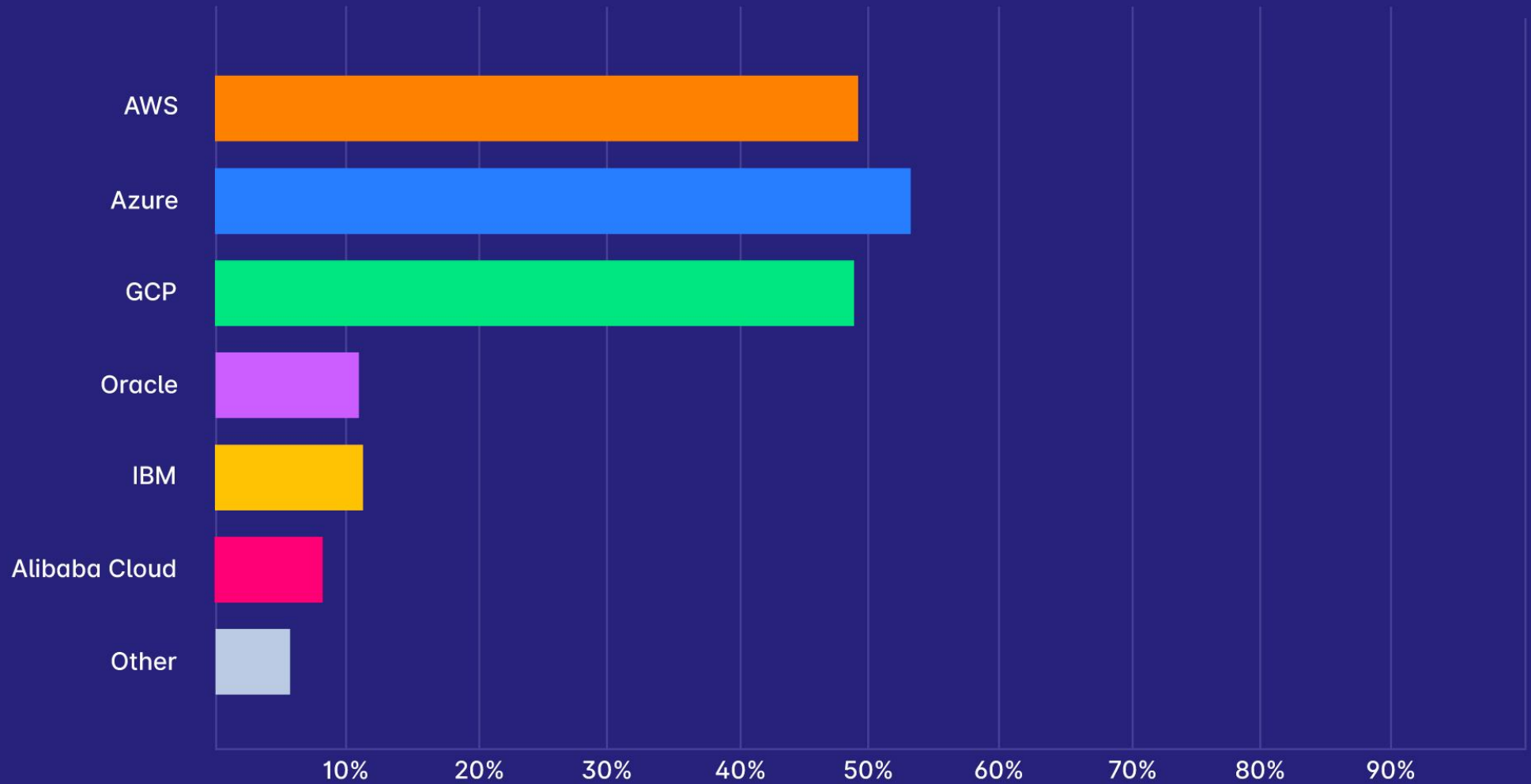


Ref : [devops.com](https://devops.com)

# State of the Cloud Expertise - III



FIGURE 2 - DESIRED CLOUD EXPERTISE



[Ref : devops.com](http://devops.com)



# Top 7 cloud computing careers of 2021 and how to get started



**Cloud administrator - Average salary: \$70,501**

**Cloud architect - Average salary: \$145,820**

**Cloud automation engineer - Average salary: \$141,000**

**Cloud consultant - Average salary: \$109,553**

**Cloud engineer - Average salary: \$123,663**

**Cloud software engineer - Average salary: \$112,897**

[Ref - TechTarget](#)

# Top cloud computing skills to boost your career in 2021 and Beyond



**DevOps**

**Machine learning and AI**

**Cloud security**

**Database management**

**Hybrid cloud**

**Data and application migration and deployment**

**Storage**

**Network management**

**Multicloud**

**Application programming interfaces (APIs)**

**Metrics and analytics**

**Cloud service platform expertise**

**Automation**

**Infra Automation Languages**

**Containerization**

**Change management**

**Orchestration Platforms**

# Top cloud certifications



## Vendor-specific

Amazon Web Services	Google Cloud Platform (GCP)	Microsoft Certified Azure
<u><a href="#">AWS Certified Cloud Practitioner</a></u>	<u><a href="#">Associate Cloud Engineer</a></u>	<u><a href="#">Microsoft Azure Fundamentals</a></u>
<u><a href="#">AWS Certified Solutions Architect</a></u>	<u><a href="#">Professional Cloud Architect</a></u>	<u><a href="#">Azure Administrator Associate</a></u>
<u><a href="#">AWS Certified Developer-Associate:</a></u>	<u><a href="#">Professional Data Engineer</a></u>	<u><a href="#">Azure Developer Associate</a></u>
<u><a href="#">AWS Certified SysOps Administrator-Associate</a></u>	<u><a href="#">Professional Cloud Developer</a></u>	<u><a href="#">Microsoft Azure Solutions Architect</a></u>
<u><a href="#">AWS Certified DevOps Engineer - Professional</a></u>	<u><a href="#">Professional Cloud Network Engineer</a></u>	
<u><a href="#">AWS Certified Solutions Architect-Professional</a></u>	<u><a href="#">Professional Cloud Security Engineer</a></u>	

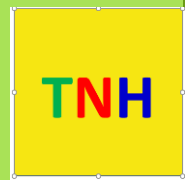
[IBM Cloud](#)

[Oracle Cloud](#)

[Cisco Certified Network Administrator Cloud](#)

[Cisco Certified Network Professional Cloud](#)

[System Administrators in Red Hat OpenStack](#)



# Top cloud certifications

**Vendor-Neutral**



Cloud Institute

Certification of Cloud Security Knowledge - Cloud Security Alliance

Cloud Credential Council

Cloud Genius

Cloud Essentials - CompTIA

CloudMaster - National Cloud Technologists Association



# Popular Cloud Computing Events and Conferences to Attend in 2021



## Cloud Expo Europe 2021

### ***Mission Possible***

**Host:** Cloud Expo Europe

**Date:** July 7-8

**Location:** Excel, London, UK

**From the organizer:** *“The Cloud Public Sector Summit is an interactive 1-day event featuring a series of keynotes, presentations and panel sessions, addressing the key challenges and opportunities faced by senior technology professionals and business leaders in the public sector. The agenda features 10 sessions, providing a stack of opportunity for the audience to source information, ideas and inspiration to design, build and manage their technology architecture.”*

**REGISTER**

## IEEE International Conference on Cloud Computing 2021

***A Prime International Forum for Both Researchers and Industry Practitioners***

**Host:** IEEE

**Date:** September 5-10

**Location:** Virtual

**From the organizer:** *“The IEEE International Conference on Cloud Computing (CLOUD) has been a prime international forum for both researchers and industry practitioners to exchange the latest fundamental advances in the state of the art and practice of cloud computing, identify emerging research topics, and define the future of cloud computing. All topics regarding cloud computing align with the theme of CLOUD. In 2021, we will gather to strive to advance the largest international professional forum on cloud computing.”*

**REGISTER**

# Popular Cloud Computing Events and Conferences to Attend in 2021



## Cyber Security and Cloud Congress 2021 *Exploring the Security Needs of Future Technology*

**Host:** Cyber Security Cloud Expo

**Date:** September 22-23

**Location:** Santa Clara, California, U.S.

**From the organizer:** “The Cyber Security & Cloud Congress will cover two days of top-level content and thought leadership discussions looking at the Cyber Security & Cloud ecosystem. Don’t miss the opportunity to explore this innovative technology and its impact on a range of industries including, manufacturing, transport, supply chain, government, legal sectors and financial services, energy, utilities, insurance, healthcare, retail, and more!”

**REGISTER**

## Infrastructure Is Everywhere: Accelerating Business Value Through Innovation

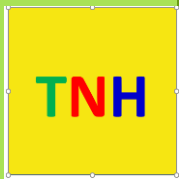
**Host:** Gartner

**Date:** December 1-2

**Location:** Tokyo, Japan

**From the organizer:** “Around the world, organizations and entire industries have been forced to regroup and reassess how they do business. Infrastructure and operations (I&O) leaders have had to change plans rapidly to adjust to remote workforces and cost pressures, and keep core systems operational and resilient. As business moves faster into new territory, IT leaders faced a critical mandate and opportunity: Adapt and innovate IT I&O to deliver competitive advantage in a world that is full of disruption.”

**REGISTER**



# Popular Cloud Computing Events and Conferences to Attend in 2021



## Microsoft Ignite

*A digital world at your fingertips*

**Host:** Microsoft

**Date:** March 2-4

**Location:** Virtual

**From the organizer:** *“The next Microsoft Ignite is March 2–4, 2021. As we enhance the experience, enjoy and share your favorite moments from September, 2020.”*

## CloudFest 2021

*Building CloudFest Together*

**Host:** CloudFest

**Date:** March 23-25

**Location:** Virtual

**From the organizer:** *“CloudFest returns on an all-digital platform amid a global pandemic as we take stock of the strengths, weaknesses, risks, and opportunities that are revealed by a globe-spanning threat like COVID-19. The internet has delivered when it was needed most, just as its architects predicted—now let’s take it to the next level. You, the cloud professional, have an important role to play in the future of technology—so join us at CloudFest 2021 and let’s build something great together.”*

## Cloud Transformation Champions, Online

*Connecting Executives Leading their Enterprise Through a Cloud Transformation Journey*

**Host:** Corinium Intelligence

**Date:** March 2-3

**Location:** Virtual

**From the organizer:** *“Join us wherever you are in the world. At home, in the office, on desktop, mobile or tablet for just 90 minutes a day starting 2nd March, 2021.”*

## Oracle-open-world 2021 Las Vegas

**AWS Summit**

**Google I / O**

**Alibaba summit-live**

**TNH**

# Up Next



## Beginners

Getting Started with Different Cloud Vendors

## Middle Level Resources

Building Cloud Solutions based on Scenarios

## Senior Level Resources

Deriving Enterprise Level Solutions with Client Driven pilot projects



**To be the ultimate knowledge hub for the most demanding technologies in the industry.**

**tnhwithlaksiri@gmail.com**

**Technology Innovation Hub**

**Thank You.**