Table of Contents

Cloud computing

Cloud computing is the on-demand availability of computer system resources, especially data storage and computing power, without direct active management by the user.

- AWS
- Microsoft Azure
- Google Cloud

> **What is cloud computing?**
>
> Cloud computing is the on-demand delivery of IT resources over the Internet with pay-as-you-go pricing. Instead of buying, owning, and maintaining physical data centers and servers, you can access technology services, such as computing power, storage, and databases, on an as-needed basis from a cloud provider like Amazon Web Services (AWS).
> — https://aws.amazon.com/what-is-cloud-computing/

Stack Overflow Developer Survey 2022

Cloud platforms

Stack Overflow Developer Survey - Cloud platforms

1. AWS
2. Microsoft Azure
3. Google Cloud
4. Firebase
5. Heroku
6. DigitalOcean
7. VMware
8. Managed Hosting
9. Linode
10. OVH
11. Oracle Cloud Infrastructure
12. OpenStack
13. IBM Cloud or Watson
14. Colocation

Source: Stack Overflow Developer Survey 2022

Stack Overflow Developer Survey 2023

Cloud platforms

Stack Overflow Developer Survey - Cloud platforms

1. Amazon Web Services (AWS)
2. Microsoft Azure
3. Google Cloud
4. Firebase
5. Cloudflare
6. Digital Ocean
7. Heroku
8. Vercel
9. Netlify
10. VMware
11. Hetzner
12. Linode, now Akamai
13. Managed Hosting
14. OVH
15. Oracle Cloud Infrastructure (OCI)
16. OpenShift
17. Fly.io
18. Vultr
19. Render
20. OpenStack
21. IBM Cloud Or Watson
22. Scaleway
23. Colocation

Source: Stack Overflow Developer Survey 2023

	Azure	AWS	Google Cloud
Available Regions	Azure Regions	AWS Regions and Zones	Google Compute Regions & Zones
Compute Services	Virtual Machines	Elastic Compute Cloud (EC2)	Compute Engine
App Hosting	Azure Cloud Services	Amazon Elastic Beanstalk	Google App Engine
Serverless Computing	Azure Functions	AWS Lambda	Google Cloud Functions
Container Support	Azure Container Service	EC2 Container Service	Container Engine
Scaling Options	Azure Autoscale	Auto Scaling	Autoscaler
Object Storage	Azure Blob Storage	Amazon Simple Storage (S3)	Cloud Storage
Block Storage	Azure Managed Storage	Amazon Elastic Block Storage	Persistent Disk
Content Delivery Network (CDN)	Azure CDN	Amazon CloudFront	Cloud CDN
SQL Database Options	Azure SQL Database	Amazon RDS	Cloud SQL
NoSQL Database Options	Azure DocumentDB	AWS DynamoDB	Cloud Datastore
Virtual Network	Azure Virtual Network	Amazon VPC	Cloud Virtual Network
Private Connectivity	Azure Express Route	AWS Direct Connect	Cloud Interconnect
DNS Services	Azure Traffic Manager	Amazon Route 53	Cloud DNS
Log Monitoring	Azure Operational Insights	Amazon CloudTrail	Cloud Logging
Performance Monitoring	Azure Application Insights	Amazon CloudWatch	Stackdriver Monitoring
Administration and Security	Azure Active Directory	AWS Identity and Access Management (IAM)	Cloud Identity and Access Management (IAM)
Compliance	Azure Trust Center	AWS CloudHSM	Google Cloud Platform Security
Analytics	Azure Stream Analytics	Amazon Kinesis	Cloud Dataflow
Automation	Azure Automation	AWS Opsworks	Compute Engine Management
Management Services & Options	Azure Resource Manager	Amazon Cloudformation	Cloud Deployment Manager
Notifications	Azure Notifcation Hub	Amazon Simple Notification Service (SNS)	None
Load Balancing	Load Balancing for Azure	Elastic Load Balancing	Cloud Load Balancing

Snippet from Wikipedia: ***Cloud computing***

> **Cloud computing** is the on-demand availability of computer system resources, especially data storage (cloud storage) and computing power, without direct active management by the user. Large clouds often have functions distributed over multiple locations, each of which is a data center. Cloud computing relies on sharing of resources to achieve coherence and typically uses a pay-as-you-go model, which can help in reducing capital expenses but may also lead to unexpected operating expenses for users.

Related:

- ... as a service
- Microsoft Cloud

External links:

- https://www.w3schools.in/cloud-computing/cloud-computing-architecture/
- https://cloud.google.com/gartner-cloud-infrastructure-as-a-service

ToDo

- 🔧Fix Me!
- Alibaba Cloud
- Amazon Web Services (AWS)
- Apache OpenWhisk
- Apprenda
- AWS EC2
- AWS Lambda
- Bluemix
- Cisco CloudCenter
- Cloud Analytics
- Cloud Backup
- Cloud Brokers
- Cloud Cost Management
- Cloud Foundry
- Cloud Management
- Cloud Migration
- Cloud Monitoring Software
- Cloud Operations Analytics
- Cloud Storage
- Cloud Storage Gateways
- Compute Service
- Containers as a Service (CaaS)

- Digital Ocean
- EPAM Orchestrator
- Google Cloud Platform
- Google Firebase
- Hadoop
- Helion
- Heroku
- Hybrid Cloud Computing Platforms
- IBM Cloud
- In-Memory Data Store Services
- Infrastructure as a Service Clouds (IaaS)
- IoT Analytics
- IoT Connectivity
- Iron.io
- Jelastic
- Microsoft Azure
- MSP Backup
- MuleSoft Anypoint Platform
- OpenStack
- OpenStack
- OutSystems Platform
- PaaS Clouds
- Pivotal Cloud Foundry
- Public Cloud Storage Services
- Rackspace
- RedHat OpenShift
- Skytap
- Software Defined Data Center (SDDC)
- Triton
- vCloud Air
- Virtustream xStream
- Weaveworks

kb, skill, internet, dx, compare, cloud