

AMAZON CLOUD PLATFORM

1



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WHAT IS AMAZON CLOUD PLATFORM

- The platform is known as Amazon Web Services (AWS) provides on-demand computing resources and services in the cloud, with pay-as-you-go pricing. For example, users can run a server on AWS that one can log on to, configure, secure, and run just as one would a server in his local space.



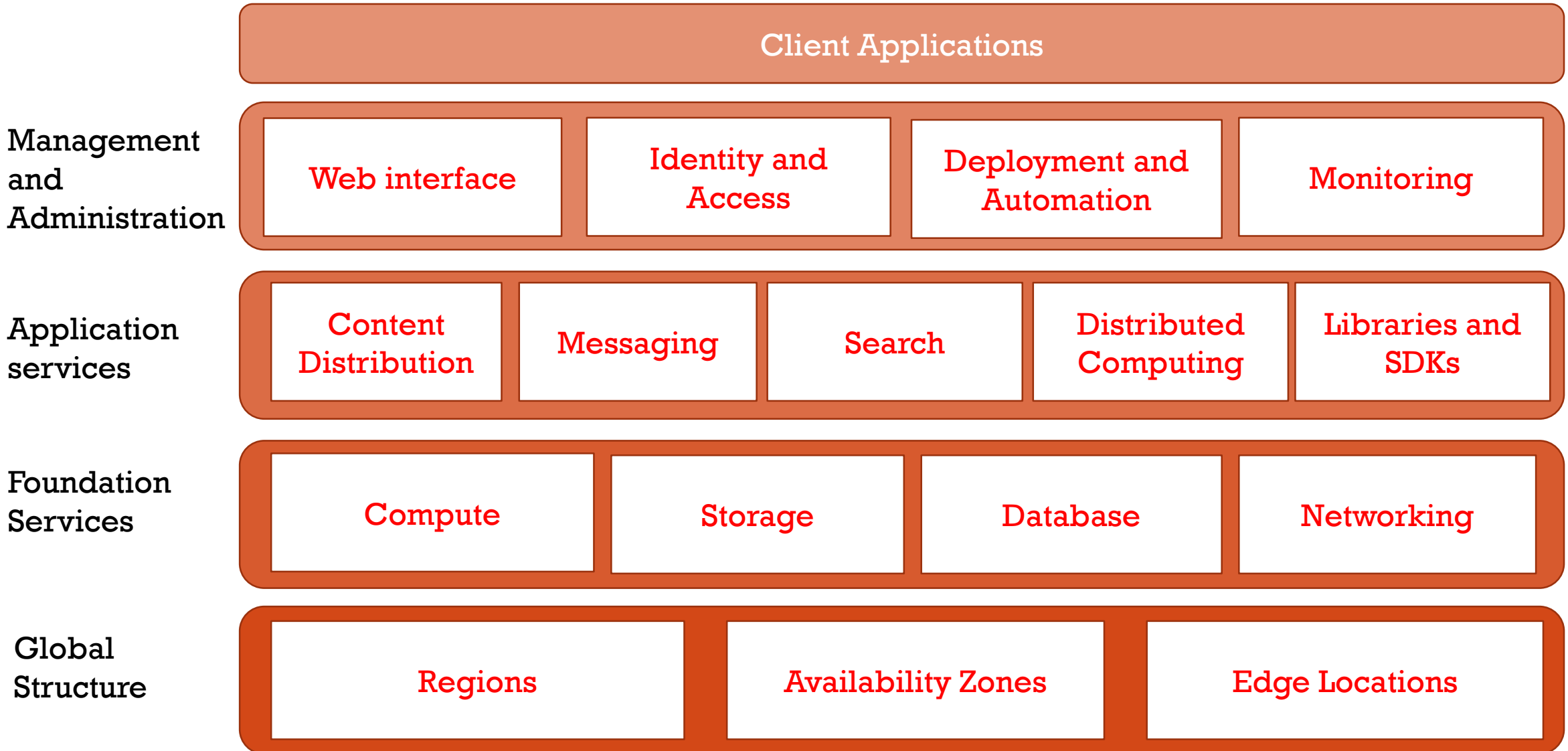
WHAT CAN YOU DO

- Run a Virtual Server
- Store Files
- Share Digital Media
- Deploy a Website
- Host a Website
- Run a Database
- Analyze Your Data

CLIENTS



AMAZON WEB SERVICES



COMPUTE AND NETWORKING SERVICES

Amazon EC2

- Provides virtual servers in the AWS cloud

Elastic Load Balancing

- Distributes network traffic across set of virtual servers.

Auto Scaling

- Automatically scales set of virtual servers based on changes in demand.

Amazon VPC

- Provides an isolated virtual network for your virtual servers.

STORAGE AND CONTENT DELIVERY SERVICES

Amazon S3

- Scalable storage in the AWS cloud

CloudFront

- A global content delivery network (CDN).

Amazon EBS

- Network attached storage volumes for virtual servers.

Amazon Glacier

- Low-cost archival storage.

DATABASE SERVICES

Amazon RDS

Provides managed relational databases.

Amazon Redshift

A fast, fully-managed, petabyte-scale data warehouse.

Amazon DynamoDB

Provides managed NoSQL databases.

Amazon ElastiCache

An in-memory caching service.

APPLICATION SERVICES

Amazon AppStream

Hosting an application in the AWS cloud and stream the input and output to the users' devices.

Amazon CloudSearch

Adding search to a website

Amazon Elastic Transcoder

Convert digital media into the formats required by the users' devices.

Amazon SWF

Coordinate tasks across the components of the application.

Amazon SQS

Enable components in your application to store data in a queue to be retrieved other components.

REGIONS

- **US East (N. Virginia)**
- **US East (Ohio)**
- **US West (N. California)**
- **US West (Oregon)**
- **Canada (Central)**
- **EU (Ireland)**
- **EU (Frankfurt)**
- **EU (London)**
- **Asia Pacific (Singapore)**
- **Asia Pacific (Sydney)**
- **Asia Pacific (Seoul)**
- **Asia Pacific (Tokyo)**
- **Asia Pacific (Mumbai)**
- **South America (São Paulo)**

- ❖ **14 Regions**
- ❖ **Availability Zones:**
multiple distinct locations in the regions
- ❖ **No replications of Data**
- ❖ **Resources are tied to specific Region**

BENEFITS

- ✓ **On the Go Pricing**
- ✓ **Performance**
- ✓ **Deployment Speed**
- ✓ **Security**
- ✓ **Flexibility**

PROBLEMS

- ❖ **Complicated billing**
- ❖ **Complex procedure for business support**

PRICE OVERVIEW

Public cloud provider	Instance size	Memory allocation	Disk space	CPU	Compute unit capacity	Price
Google	f1-micro	615 MB RAM	1000 GB HDD	1 vCPU	~ 0.5 ECU	\$46.05
Microsoft Azure	Basic A0	768 MB RAM	20 GB + 980 GB HDD	1 vCPU	~ 0.95 ECU	\$61.96
AWS	EC2 Micro t1.micro + 1000 GB EBS	613 MB RAM	1000 GB HDD	1 vCPU	~ 0.5 ECU	\$64.40

REFERENCE

- [Getting Started with AWS - AWS Documentation](#)
- <https://aws.amazon.com/ec2/>
- <http://searchaws.techtarget.com/tip/Sizing-up-AWS-vs-Azure-vs-Google-Compute-Engine>
- <https://forums.aws.amazon.com/index.jspa>
- <http://aptuz.com/blog/6-reasons-why-we-chose-aws/>