

AWS Services Cheatsheet

S3 (Simple Storage Service)

- hostam fisiere statice, raw objects, all-purpose storage, JS files, etc

Amazon EC2 (elastic cloud compute)

- VMuri inchiriate
- vorbim de instante
- instantele sunt separate si pot scala orizontal

Load Balancer

- balanseaza requesturile catre instantele de EC2

Amazon ECS

- ruleaza aplicatii Docker-izate
- kinda lika EC2 dar cu Docker

Amazon RDS

- kinda greoi, mult management

Amazon DynamoDB

- scales horizontally
- key/value

Amazon VPC (Virtual Private Cloud)

- se ocupa de Securitate

Amazon Aurora

- managed sau serverless

Amazon Cloudfront

- speed up performance
- caching layer
- poti pune CloudFront in fata S3 pentru caching pt static files

Amazon Route 53

- register the domain
- DNS
- API routes

AWS Lambda

- serverless
- doar uploadezi codul si AWS se ocupa de intretinere

Amazon API Gateway

- iti definesti un API si apelezi lambda-uri din AWS Lambda
- kinda like a controller in Springboot

Amazon Redshift:

- analytics DB
- optimised for large queries

Cognito

Cognito is the AWS service dedicated to user management. It has 2 components:

- User pools
- Identity pools

Amazon ElastiCache

Serverless

Ai servere, doar ca nu te ocupi tu de ele

Amazon Machine Image (AMI)

Instructiuni pentru cum porneste un VM

An Amazon Machine Image (AMI) provides the information required to launch an instance, including the operating system and additional software. You must specify an AMI when you launch an instance. You can launch multiple instances from a single AMI when you need multiple instances with the same configuration.

Security Group

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. When you launch an instance in a VPC, you can assign up to five security groups to the instance. Security groups act at the instance level, not the subnet level. Therefore, each instance in a subnet in your VPC can be assigned to a different set of security groups.

Auto-Scaling Groups

An Auto Scaling group contains a collection of Amazon EC2 instances that are treated as a logical grouping for the purposes of automatic scaling and management. An Auto Scaling group also enables you to use Amazon EC2 Auto Scaling features such as health check replacements and scaling policies. Both maintaining the number of instances in an Auto Scaling group and automatic scaling are the core functionality of the Amazon EC2 Auto Scaling service.

EBS (Elastic Block Store)

Object vs Block Storage

We are most likely used to block storage. This is what our computers use to store all our data (and OS and programs). Files are divided into blocks of data. By contrast, object storage stores files as one big chunk of data and metadata that is identified by an ID (usually the name of the file). The main consequence of this is that object storage doesn't allow us to

update/edit files. If we want to update a file, we re-upload the whole file.