

# Compute

EC2 Overview :- (Elastic Compute cloud)

\* Backbone of AWS

EC2 is a highly configurable Server that allows you to launch VMs.

\* VM is an emulation of physical computer using software.

\* Server virtualization allows you to easily create

copy, resize or migrate your server

\* When we launch VM, we call it an instance.

Amazon Machine Image (AMI) : predefined configuration for a VM

\* The amount of CPUs

\* The amount of Memory.

\* The amount of Network Bandwidth etc, etc

Storage :-

Types of storage services :-

Elastic Block store (EBS) :-

Data is split into even-sized blocks.

Directly accessed by OS (VM).

When you need virtual hard drive attached to VM.

AWS Elastic File Storage :- (EFS)

File stored with data & metadata

Amazon Simple Storage Service (S3) - Object

Object stored with data, metadata & Unique IDs.

S3 Object → Objects hold your data

S3 Bucket → Buckets hold S3 objects.

Database

data store that stores semi structured and structured data.

Relational databases & Non Relational.  
↳ (SQL)

Databases have a rich set of functionality.

Key-value database (NoSQL)  
↳ Due to their simple design,  
easy to scale.

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