**What is Amazon EC2**

Amazon Elastic Compute Cloud (Amazon EC2) is a service that provides secure and scalable computing capacity in the Amazon Web Services (AWS) cloud.

It is designed to make web-scale computing easier for developers.

**Features of Amazon EC2**

Amazon Elastic Compute Cloud (Amazon EC2) provides the following features.

**1.** Virtual computing environments, known as ***instances.***

**2.** Preconfigured templates for your instances, known as ***Amazon Machine Images (AMIs)***, that package the bits you need for your server (including the operating system and additional software).

**3.** Various configurations of CPU, memory, storage, and networking capacity for your instances, known as ***instance types****.*

**4.** Secure login information for your instances using ***key pairs*** (AWS stores the public key and you store the private key in a secure place).

**5.** Storage volumes for temporary data that's deleted when you stop or terminate your instance, known as ***instance store volumes****.*

**6.** Persistent storage volumes for your data using Amazon Elastic Block Store (Amazon EBS), known as ***Amazon EBS volumes****.*

**7.** Multiple physical locations for your resources, such as instances and Amazon EBS volumes, known as ***Regions* and *Availability Zones****.*

**8.** A firewall that enables you to specify the protocols, ports, and source IP ranges that can reach your instances using ***security groups****.*

**9.** Static IPv4 addresses for dynamic cloud computing, known as ***Elastic IP addresses****.*

**10.** Metadata, known as ***tags*,** that you can create and assign to your Amazon EC2 resources.

**11.** Virtual networks you can create that are logically isolated from the rest of the AWS cloud, and that you can optionally connect to your own network, known as ***virtual private*** ***clouds* (VPCs)**.