**Amazon Virtual Private Cloud (VPC)**

Amazon VPC is your own private network inside Amazon’s cloud infrastructure. It is an alternative to maintaining your own data centre and is cheaper

We can complete control over your virtual networking environment, including a selection of your IP address range, the creation of subnets, and configuration of route tables and network gateways

**Reign:** nothing but location, like in India Mumbai.

**Availability zones:** always maintains two zone and both are communication each other’s. for back up mainly maintains two or more availability zones.

**Elastic Load Balancing**

Elastic Load Balancing (ELB) automatically distributes incoming application traffic across multiple EC2 instances, in multiple Availability Zones.

Availability zones are basically places where amazon has set up their servers. Since they have customers from the whole globe, they have set up multiple Availability zones to reduce the latency.

**Serverless Framework**

[Serverless](https://serverless.com/framework/) is useful to build web, mobile and IoT applications using AWS Lambda and API Gateway, Azure Functions, Google Cloud Functions, and more.

Serverless allows you to build and run applications and services without thinking about servers.

The pricing is entirely based on the actual amount of resources consumed by an application, rather than on pre-purchased units of capacity used in traditional servers

It eliminates infrastructure management tasks such as server or cluster provisioning, patching, operating system maintenance, and capacity provisioning.

You can build on serverless for [nearly any type of application](https://aws.amazon.com/serverless/#Serverless_Application_Use_Cases) or backend service, and everything required to run and scale your application with high availability is handled for you.