**Elastic Compute Cloud (EC2) [Amazon EC2 Instances]** [**https://aws.amazon.com/ec2/**](https://aws.amazon.com/ec2/)

Application, Web, Database, Game, Mail, Media, Catalog, File, Computing, Proxy

* Pay as you go
* Broad selection of HW/SW
* Global Hosting

Process

1. Login to AWS Console
2. Choose a region
3. Launch EC2 Wizard
4. Select AMI (Amazon Machine Image), which provides software platform
5. Select Instance Type, Hardware
6. Config Network
7. Config Storage
8. Config Key Pairs
9. Launch & Connect

**AWS Elastic Beanstalk Volumes**

* Choose between HDD & SSD
* Persistent and customizable block storage for EC2 instances
* Replicated in the same Availability Zone
* Backup using Snapshots
* Easy and transparent Encryptions
* Elastic Volumes
* Free Encryption

Share Snapshots for backups or full replication of the data anywhere in the world.

`**lsblk**` to look at all the attached storage with the instance

`**sudo mke2fs /dev/xvdf**` to create file system on the storage

`**sudo mount /dev/xvdf /mnt**` to mount a folder in file system

**AWS S3** <https://aws.amazon.com/s3/>

* Fully Managed Storage Service
* Store virtually unlimited number of objects
* Access any time, from anywhere with low latency, even works with VPC
* Rich security controls, Service Side Encryption
* Can handle high volume of requests
* Access Anywhere by concatenating 3 things: BucketName, Region-Specific endpoint, object Key
* Bucket name should be globally unique, and string should follow https allowed characters

Use Cases

* Storing Applications Assets
* Static Web Hosting
* Backup & Disaster Recovery
* Staging area for Big Data