Static website (https://www.youtube.com/watch?v=BpFKnPae1oY)

Amazon S3 (Simple Storage Solution)

* one of the 1st services
* Object based storage that allows you to store unliited files, from 0 bytes to 5TB per object
* Easy to use using a simple web interface
* Store data in any format
* For your website content(i.e. HTML pages, CSS files, images, videos, text files and JavaScript
* Pros: durability, availability, Secure (by default, S3 buckets are private and can only be acessed by users that have been explicitly granted access, Scalable and Low cost pay for what you use) – onyl the resource owner can access data

Amazon S3 – bucket

* Bucket name must be globally unique
* Must be read publicly, or else the error sow up to visitors
* **Bucket name must be equal to the name of website you’re hosting**
* **To route the traffic to your website, your bucket name must match the name of the website that you’re hosting.**
* **Alternatives: Lightsail (Wordpress), Amplify (hidden costs, not much control over resources), Elastic Beanstalk (handle load balancing etc.)**
* **To host static**
* **Must have public read access, does not support https for custom domain names, use cloudFront, 225 global edge points**

**EC2, ECS**

* **EC2 renting virtual machine from EC2 (have to manage vulnerabilities, updates etc.)**
* **ECS (Elastic Container Storage) – using docker containers, ECS forgate (AWS controls it more)**

Route53 (paid option)

* A highly available and scalable Domain Name Systém (DNS) service of AWS, For registering a new domain
* Reliable and cost effective way to route end users to Internet applications
* Network & Content – Route53
* Register domain – choose a domain name –
* Choose created route - Create record set

CloudFront (deliver content globally) – type of CDN (content delivery network) – higher availability

* Your content cached all around the world
* Geographix proximity means lower latency, etter user experience – edge locations (lowest latency for best possible performance)
* Cost effective, protection against multiple types of attacks including network and application layer DDoS attacks.