Cloud Computing Models: Public Cloud - David and Operated by third party. Resources over the internet.

Aws/ Google Usud/ Azwe Not Enclusive. H (Frontend) Dedicated harware for the owning Private Cloud-Cloud. HCBackend & Database) Combined, by technology that allows Hybrid the shaving of data b/w public & private idouds. VPN Tunnelling Sources Saas - Software as a Service Eg: Grail, Google Choud Running on a tremote service and you've getting it as PaaS+ Platform + Platform to upload control wheat code applications/websites -> Infrastructure -> Any kind of infra own the internet. Eg. Somois, OS, Storage 05 Lul connot

clear differences Marage of Maraged by lyou upto 2 sate3 Marages on Premise by you - Application Data - Runtime N. A - Middleware \$ saal - 05 upto - Vintualization. Iaas - Somers Rest by the vendor - Storage - Networking \* A piece of software running b/w the OLS and application layer. The glue blw the boutst livel and the app which actually enecutes the function. Benitt + Reduced It costs

> Scalability — Cloud computing allows he work of setting up of multiple fremus

> Global Infrastructure if accompation is read. I keliable data backup t disaster recovery -> Up-to - date

Use Casus + Big Data Analysis + Wides Emeaning Preforms -> Disaster Rewnby -> Sumulus Compating + AI/ML as a survice Future Edge Computing: Edge Nodes: Speeds up the process by acting as the middle man b/w Cloud and Data Centres -> Massine Market -> Cloud Shift Approaches by Most IMP Starts Amazon Ec2 (Iaas) -> Provides Scalable Computing Capacity in the aws cloud. -> Eliminates need to innest in hardware up front, applications are deployed we can create faster. windows/ linux/Mae machines Elastic Compute Cloud No need to fonecast traffic, as scalable.

The wintual computing summers are known as

## AMI (Amazon Machine Image)

- Template that contains a software configuration. From an AMI, you launch an instance, which is the copy of the AMI trunning as a wintual server.
  - The noot device for your instance contains the image used to boot the instance.

(AmerzonEBS) (Elastic Book Stone)

or an instance stone volume.

- Instance type - determines the bardware of the host computer used for your instance,

Look up Instance types

- general Purpose -> General/Practice
- Comput optimized High performance processor
  - Memony optimized + Large dataset
  - Storage optimized + High stead / with

