*AWS*

* *AWS is a data center and it is a server room*
* *It is a public cloud*
* *It is an elastic compute cloud*
* *They are four types in AWS*
* *1.Compute*
* *2.Storage*
* *3.Database*
* *4.Networking*
* *They are two types of cloud.*
* *Private and public cloud.*
* *Difference between public and private cloud*
* ***Hypervisor*** *is of two types software and hardware*
* *AWS it is an open source*
* *1 core =2 vcpu’s*
* *AWS is an elasticity or flexibility in nature*
* *Use for a hour =pay for an hour*
* *Scale Out(Horizontal) :if the core is 2GB and application is of 4 GB then we will add another server which contains 2GB core*
* *Scale Up (vertical) : if the core is 2GB and the application does not support then the core is update is 4GB and so on it is updated to run N no of applications .( if the core is 2GB and application is of 4 GB then we will update server to 4GB )*
* *Family of services in AWS (compute)*
* *r series :it contains more ram intensive .this is use for applications which contain more ram .*
* *c series: it is computive intensive .*
* *m series : it is a mixture of core and ram .*
* *t series: it is use for testing and training (T & D).*
* *Accelerated : it is for application which is for extremely high ram , high computing .*
* *Xtended series (X) : it is use for terabytes ,mainly it is use for Hanna .*
* *Graphic (G) : it is use for animations , highly graphical .*
* *I series:It is use for high input and output services .*
* *Storage: it use for database*
* *It is of two types hard disk and external device*
* *Mainly it is use for storing the data .*
* *Storage is of two types block and object*
* *Block :it is a hard disk ,blocking storage inbuilt that is known as EBC (elastic Blocking Storage ).*
* *EBS: it is a hard disk and it is cost depends pay per block and storage of EBS block is 16 tb max and we have many EBS block .*
* *We can install any file or folder.*
* *Object: it use to take up a file (S3)*
* *S3: Simple Storage Service :it can take unlimited storage but the file cannot beyond 5TB.*
* *IOPS: Input and output second.*
* *Database:(backup):it is high availability , some backup .*

* *My database and OS should run on same page .*
* *Database is of two types EC2 and RDS*
* *EC2(Elastic Compute cloud ): it is owned by our self or it is self server*
* *Managed by AWS (RDS):In this it is connected by multiple database blocks*
* *Database have two types as relational and non –relational .*
* *Relational:* Microsoft SQL Server® is a [relational database](https://aws.amazon.com/relational-database/) management system developed by Microsoft
* *For example RDS is reacted Oracle .*
* *Non –relational :it is not related by aws .For example mongo DB, Dynamic DB.*