chapter 2 Storage 1) Object Storage: -it is relatively new option for data sturage, optimized for general binary or unstructured data often multimedia.

-it is storage and retrieval of unstructured blobs of data and medata using an HIPP API. - object cloud be an image file, logs, HPML tree or any self Benefitis 19 It is easy to we. Each objects gets a unique to and HTTP UPL that can be publicly accessible. - Data read and write operations are very simple and may be performed directly by user's browser wa REST, without having to go through control of server app. - The app is released from night structure of db tables and the syllen hierarchy. b) to It provides scalability. - Unlike classical storage using tiles and tables, the introducture to store objects grow in complexity when data grows. - object storage our grow quickly, without limits. clif provides agility. - File system and db are complex and require constant care by db - Because of it's simplicity, developer lowner doesn't have to depend on professionals, which eliminates bottlereals in app's evolution. - A developer has more freedom to make change in an app. all 14 provides a cost structure that means we only for what we use e) It provides optional versioning that means a old version's & objects can be retrieved to recover from accidental overwhite q data. 1) By using it, we don't have to mountain hard drives and RAID arrays, as that's handled by sente provider. 9) It helps to store chunks of metadata alongsida data blob which emplifies application architecture

@ use carca) 1) B Disaster Recovery - Backup offers a robust disaster recovery solution designed to provide superior data protection. alstatic website hosting; · key advantage is ability to distribute data object to internet dring HPHP. I build an provide own websered + It eliminates need to build an provide own websered to host static content because because interroute Object Storage can be simply configured to behave as a static website for stored object. 3) Document store and file sharing. - It atilizes strong in-transit encryption and granular security controls an buckets and objects. - Many document management system coms) proude a function to directly stire and retrieve documents from Object storage service 9) Brg. Data analytrus - Big Data' consists of high volume, high velocity and high variety efinformation asserts that require efficient forms of information processing to support insight and decision making. - What complicates taile for companies is not data itself but management of metadate which adds more spanformann making data itself more valuable assert. - Properly tagged data is searchable and becomes meaningful - interocité object storage supports creation y user defined object metadata (key, value pain) so metadata are controlleable.

& Block sturages - They are relatively simple and familiar -they provide a traditional block storage device nordaline over no - used to host database support random read/conte operation and keep system files of running vm. Advantage. - It is a familiar paradigm. People and software understand and - Block dewices are well supported. Every programming language - Ale system permissions and access controls are familiar and well understood. - Block storage devices provide low latency so they are suitable for use by dbs. - It helps to take hive snapshorn of entire device easily for backey purposes. - Block storage devices can be restred to accommodate growing needs - Block storage devices can be easily detached and moved between machines. @ Use cases: 1) Relational database. - It scales performance needs so RPS like Oracle Mysaliete are widely diployed on mazon EBS. 2) No SQL databases. - provides consistent and low latency performance for application when renning Nosal db. 3) Enterprise application: - meets diverse needs of organization by providing reliable black storage to run entical application. 4) Development and test: - enables aganization to be more agile and responsive to cultomer Heeds. 5) Business continuitys - minimizes loss of data and recovery time by regularly bailing up data helps in burnen.