consisting is only relevant for relication, not for portitioning because there is exactly one cany of each part of the data

Ri orbjøre porty can bold a lock on an object

Re the orderforerations follows the original order of the program

K3 the order of operations follows the global (real-time) ordering

Actual Secutions that satisfy R, and R? re represtially consistent actual leacutions that satisfy R, and R, are called linearizable data true is linearizable if all executions are linearizable

operations overly in time - concernant perations do not overlap whine - serial

Cousal consistency: writes that one potentially causally related must be son by all processes in the same order order by different machines eventually consistency: in abbrel of further updates, all repleas eventually have the same state

client - certrice models

monotonic read consistency

if a process clads the value of a data item & any successive read operation on & by that process will always return that one value or a more redent one providing a timestay with the value might help or version muster

awite operation on a data item æ is completed before any successive write operation on a lythe some process monotonic write consistency

read your writes consistency the effect of a vite operation by a process on data item & will always be seen by a successive read operation on a by the

write follow rooks consisting a write operation by a process on a data item & following a previous read operation on & by the some process is quoranteed to take place on the same of a more recent value of & then was read

Teplica management Hoanest stategies permanent replicas elever-initiated replices cliet - initiated replies

thatically determined number of replies e.g. Docker replier number changes dynamically) client - side caching

wydate protocols

pull - and push - lowed

check server

restocol dessification What information is disseminated Which party takes initiative for differention what communication primitives are used to disseninte When is completion of an operation reported to the client

protocol dayses possive replication active replication gossin-losed

- primary-read, primary - write local-read, local-write all these protocoly are push - bosed with respect to updates

Massive replication

- 1. request phase
- 2. coordination phose
- 3. Elecution place
- 4. agreement phose 5. response phose