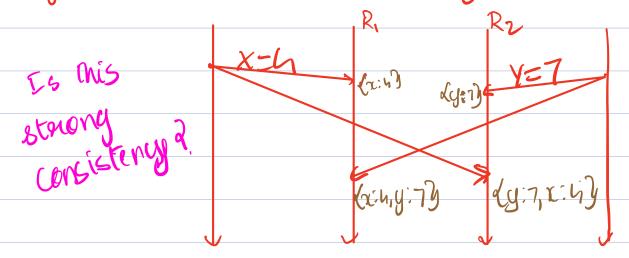


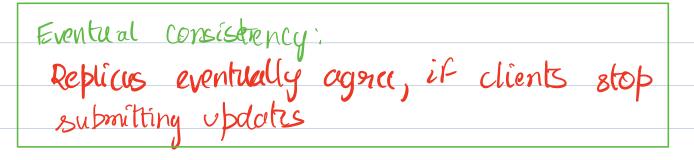
- Eventual consisentincy
- Strong convergence & SEC
- Into to app specific conflict pesolutions
- Network partitions
- -availability
- CAP

Strong consistency & if you went fault tolerance, you need a consenseus algorithm.



No! Client can gread between both nonites, & can tell that data is being replicated.

Mowers, data on both ruplicus ends up matching later. This is called eventual consistency



- This is a liveness property i.e it cannot be violated in a finite execution.

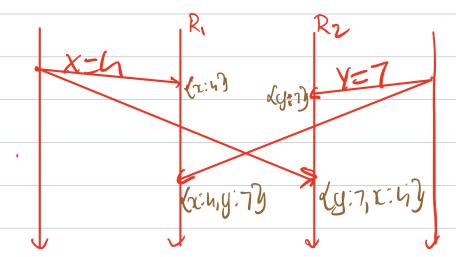
Consistency guarantres are sufety proporties



eventual consistency is NOT a safety proposity

Stewng convergence (safety property)

Replicus that have delivered some set of updates have equivalent state



satisfies etouorg convergenu.

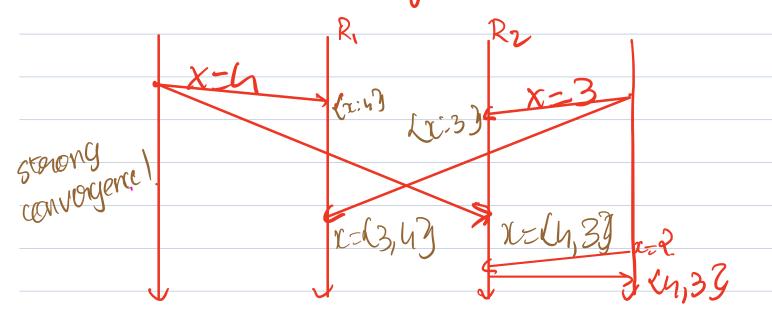
Strong eventual consistency System has both eventual consis

- System has both eventual consistency & strong convergence
- It is a combination of a liveness & sufety proporty.

Read Dynamo DB butter

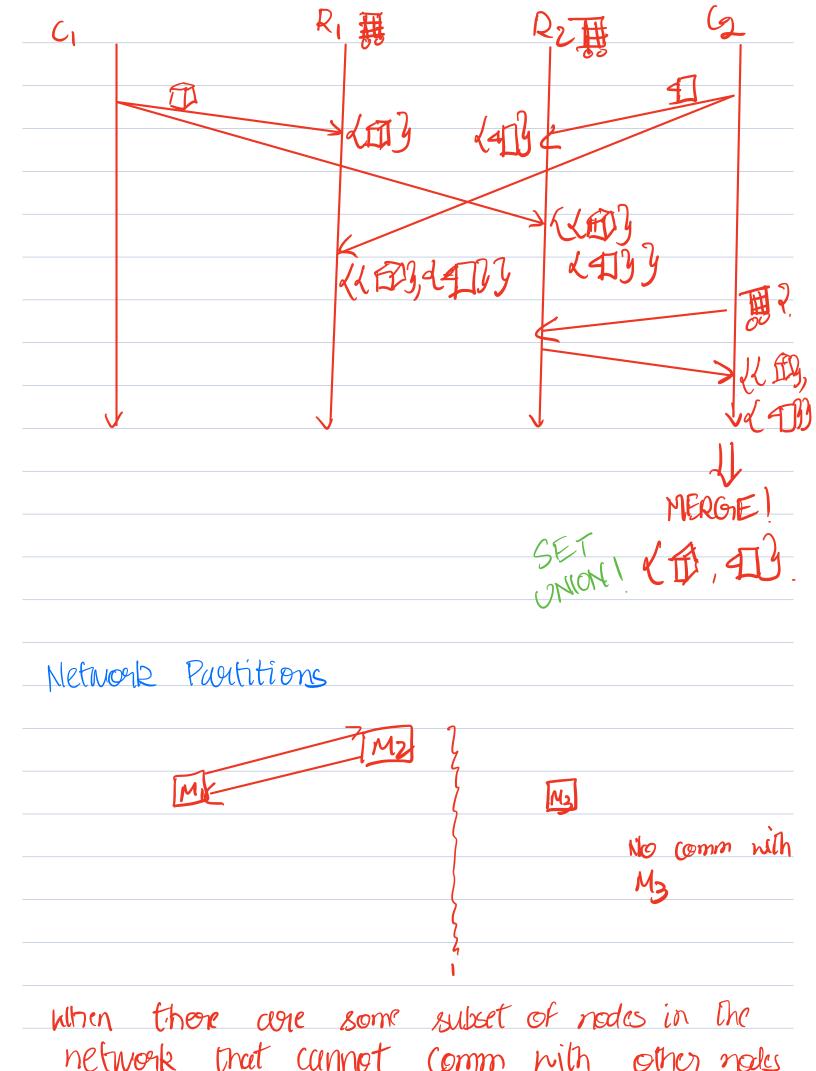
Dynamo:

- wentrul consistency.



- Clients can nead, neceive both values & decide how to do conflict nesolution.

Application specific conflict resolution.
(Amazon)



in the network.
Availability.
- Every elquest receives a response - liveness proporty
D B, BL
Primary Bucket Chooses consistency over availability
Dynamo Chooses availability over consistency.
CAP (Consistency) Availabity, Poortition tolerane)
- In bructical dest was you will almost always

have	partition	n tolenar	1ce, & you	need to make
ce tow	ede-off	between	Consistency	& aveilability