





Video 4 In consistant Hashing the local data that resides an each memony will also get distributed by the local data that resides and local data that resides and local data that resides are local data that 60 63 60 C 9 CS 150 10 4 = 1 50 10 4 = 1 CO 20102 =0 orequiel go & SI of data view be in SI rache data às in 35 but requis Joing to so often consistant memory h(ri) olon= n h(s1) olon = si h(rz)%n=rt h(sz)%n=52 h (>3) 0 | 0 n = >3 h(53) 10 n = 53 h (24) 'lon= 24 n(54)° | on = 54 r(12), lou = 1? so hash the server as well so si serner, will have 2 requests 10 Sà servez wiel have i reg Si servis well have i reg -Duppose Su seque Here each request would go to the its nearest see server in case 5'4 breaks the request of rs' or! will
go to s. 3 3 It always works un dockenise direction 0 Theoritical boad = 1/N sur som onio when S4 breaks So Suppose now in about 8 cm onio when S4 breaks So hart of load is going to be on SI -3 3 So what to do ? or buy virtual server

multiple hash function ic make So if we to do multiple hashing on same server. so even if its one hagh gets failed we would have another hagh as blog 35 Hegre the chance of load on one server is very low where cause used ? - web cashes - data belancy CONISISTANT HASHING LB - coad balancing is key concept in System design that defines not of reg sent to each server should be marly equal or distributed. - one of the way to balance load in System's using consistant hashing, constant hashing allows the requests to be mapped to bosh suchets while allowing the system to add & remove the nodes flexistibly. to maintain good load factor on each Machine > we do is hash the sequest & hash the server each teguest would be mapped to its nearest hash (server) in clock wise direction, That seven will store the reg datas 3 Suppose our one Server crashes, so ets hash(server) would go to the next nearest hash (server) in clockwise.

-> But next hash (sunus would not store prince req 6-5 details already, it viels process & then store orig see details in its roche memory

> so we will will do hashing greach server with different function. 63 45 so if one hash server gets failed the other would be there. So consis Balancing -> gives load balancing and allows to and & remove machine on efficient way. 3 3