

suppose shop 4 breaks / catches fire 6 675 DB that there is failture in server I shop 4 635 635 -> Request porder 9 + 11 (of shop 4) needs to be 639 rerouted. 633 males sure that sure order do esnot goes to same shop. 673 670 63 6-3 -> Each stop will have its own backet where 6 3 the order is kept > Suppose shop 4 gets break and its orde 9 goes to shop 3 then a new bucket/order 60 63 6-3 would be added to slop 3. 63 63 -) Message / Task quem. -> it has all the features of Notifier-load balancer & he art beat mechanish Notitier. 63 63 6 3 What it does 63 It takes request from each seiner 6-3 I Notities it any server breaks. I fails 5-3 -> Balances the load among rest of seener 5-3 and males sure that the sed story 9 g failed server request doesnot goes to the 3 -9 gets distribution equo in away that there 3 is no deplicate on same server. 3 -9 re reg 3 do bar et ni server pe nehi 9 9 jani chairje

it keeps on checking the server.

So it talks to each server and checking it they are alive or not.

If notifier doesnot gets any response from server for longer time it assumes that it is dead.

[Cofue 60] what are Microservels

11 what are Microservels

11 when I why it is used.

DRIVEN SERVICES PUBSUP ZITLEC FUENT 60 613 Sodoade Cons Synchronous commun, when we send the request awe get Cons sesponse aithin dec. We get response as doon as we send request g phone call rithere is no wait or lag un response from any party CO 60 6 60 Asynchronous commun we don't expect response as soon as C we send the request (ie instantaneous or real time request) C of mails, myg - we don't reply to mgg or anails as C soon as we get it. C also a person sending a meg doesnot hopes to gets respons

Asynchronous comman in milliste.

Meg Queure, living up the neges bet a compononals

to heep them to communicate is meg queure. C CO 5 5 3 [A] invoice seq 1 invoice pile Prinvoice seq 2 7 13 12 1 -3 -3 ~ Eg vin a store online sit 3 members requests for thes Egn seg will be enqueir, when it gets stot it well Mast monts invoice. -> 3 pick I seg processit and sends it on mal -3 here The user don't box expect immediate eesp till he gets wall he can de his own worke 3 Egz ochen we order a restament, 3 3 3

305, kapka, Rabbell - Eg of meg, queue for scalable or chite chure consumous qui Producers producers - components that sends mgges to queue it tells what has to be done. consumers > components that carry out the particular operation told by producer. adr s duece can handle any amount of reg It queun wort be-there regard process time seg 10min Tred is sent on and men thin this request won't be acceptle till the first one Is done so user has to stay on page for longer duration queue de helps to handle loats of load 2) queue has consumers that consumes the leg If not see inveases, then the no of producu] consumers can also be inesease q. 10 r decreased Vicenessa

B) It any consumers fails the seg would still semain in the queue and it would be assigned to some other consumer's I So actual request would never be look nener be lost. FEATURES OF MS& QUEUE In produce consumer 3 it depends on our use case 1) Msg order TIFO Eg, mgg appl" - wes fifo Egs Hestaurant order - No fifo or invoice. Msg order fito-msg appen (ordered) Eg wat appli M4 M3 M2 M1 here. It consumer receives M1+M2 \$50 m, \$m2 will come out & quie of their consumos1 fails so M3 would not be sent it will still Stay in queue Msg non order - NONFIFO (anordered) msgqueu Produces -> []x|40 Consumer 1 M4 M2 M2 M4 consumez MI - will go to cust 2 deadque on consum 3 consum 4. Mr - goes to cust 2 Now consumer 3 becales [not available then M3 will 80 to dead queue, & from dead queae it it ail be again pashed to msg main queun It that time consume 4 will pick up M4

Msg quae - Here one msg will onely be gone to one consumer It when we want multiple mig to C 1 when we want same mgg to be consumed C by multiple consumer we will use publish subscribe model SUMMARY -> SYNCHRONOUS US ASYNCHRONOUS COMMUNICA -> HOW \$ MSG QUEUES are used for Asynchronocy common le scaling. - we can inclded no of consumus acc to need > features of mgg quicu > fifo f non fifo -> acc to unit case choose. Cordered or whordned 6 m0-30c -> Imsg -> Icon > modes M 20023 -) Imsg many consumer-publise subsurge, model produces consumer model publish subscribe model C 1 msg = consmul consm2 1 msg + 10 consumer but each msq will go toonly I mgg to many consum one consumer

