

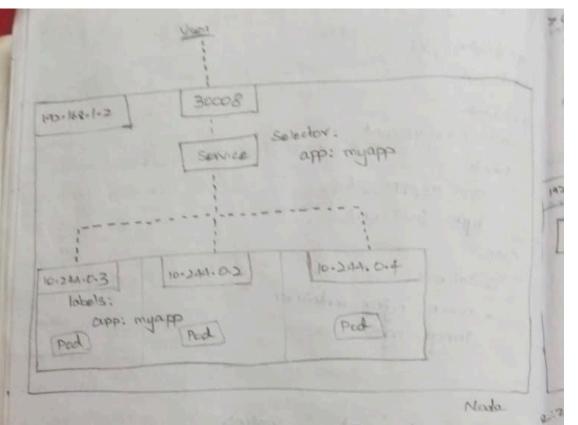
Lead balances: It is for lead distribution # It priorisons a load balancest for our application an supported cloud porovidens A good example of that would be to distribute bod arress the different early sources in your front and the Sorver - Noch Port we've said that a source can help us by mapping a Dort [simply refused as port [port - on - the - needs to a [port - en - the - poid] Pode Node 3 Node port I the node itself has a port, colled node port are 3 parties available The posit on the pod, where the actual web server swiring [ Pert: 80], It is reported as "Larget port" that is whose the seauce forwards the vegue

the sequest to the and past is no pad on to application governed steet. This is repeated as "pent" stray -The service is inject the a virtual season invide the reday beila make the cluster, it has its own IP address a that IP address is called the cluster IP of the sconfice. And finally we have the first on the rade itself, which we use to across the web somes externally & that so known as the needs port. [nedsport - 30008] trade part depart varge 2000 to 32767 How to create a source Source-definition. yml apillorsion: V1 Kind: Seawice rotadata: name: myppp- source type: Node Port #type vertices to the type of service are are avail in ports: >- target Port: 80 # Red Port \$ port: 80 # Scorupce Port node Port: 30008 under park, the only mandatasy field is port > If we denot parvide a target port, It is assumed to be the some as port, and of you don't provide a known port, a free port in the valled range blu 30000 to 32,767 is automotically allocated Port is an array, so note the dash under the port section that indicates the first element on the array, we can have multiple Such port mappings within single source

There is nothing here in the defunction if the that consists menter the target port on which pad there could be me of other pads with waterswinders murriary on port 80, 5 > As we ded with the vapileta sets prevously and a how do use do that technique that you will see very often in > us will use labols and selectors to link those > We know that the pad was created with a label together spice read to being that label into scenare defunction the In the before page service-defunction, you file under "spec" section, we have to add a new property called "colector", just like "in explicated" and "deployment definition yrles", under the schoder provide a list of labels to indentify a For this separ to to pad admittan file used to create the ped pull the labor from the pool-dejarution-file and place it widon the selector section. This links the source to the ped Selector: utb: withb type: front-end the service using knoweth Once done, create > kubecti create of Source - defination, you Service "myopp-service" created >kubect1 get sorvices

Stop here

ped-definition. you rects aprillaristan: VI kend: Pad tidnt motodata: c 100% house; what boy labels: abb; whabb type: front-ord spec: containers: - name: nginx-contained guage: nginx >kubect1 get Southers TYPE CLUSTER-IP EXTERNALIP PORTS) Kubornotas clustorIP 10.96.0.1 Lnore> 443/TCP 16d enjoyp service Node Port 10-106-127-123 known 80: 30000/TCP > curl http://192.168.1.2:30008 So far what we've discussed was a source mapped to a single pod but thats not the case all the time, what you do, when you have multiple pods In production environment, those are multiple unstances of usb application surving [reason: HA, load balancing] Hose, we've multiple similar pads amoning our east application Fey all have the source label with the key app: myapp > The Some label is used as a solector during the creation of



> So, other the service is created, It looks for a matching pod with the label and Ands throw of them.

pods as ordpostels to forward the external vaguest coming from the user

Now, finally let's book at what happons when the parts are distributed across multiple needs

Separate neces in the cluster

even use create a Service without us having to do any authority creates a Service that spans across all the redos in the cluster and maps the additional part to the Somethale part on all the nodes in the cluster and maps the addition wing you can across your application using the IP of any node in the cluster & using the Charles this case is seen & using the Same part number, which in this case is seen & wing the Same part number, which in

> curl http:// 192-168.1.3:30008

