40. Namespaces:

750 Jos, we've created pads, deployments, replicas & governos sinside a home, This home is called 'rampspace'

nucle a namespace called "default" This default namespace and to created by Kubanotes itself, when the church is just estup

* thereof purpose, such as those required by the n/w solution, the DNS sarvice, etcetera. To sholate those from the war and to posevent you from accidentally deleting or modifying those sentres, kas created them under orother namespace created at cluster startup named. "Kube-System"

> The third namespace created by KBS automatically is called kube-public, This is whose the resources that should be made available to all were one created

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> We can create our own narrespaces, if you wanted to use the same cluster just both "dex" & "prod' environment but at the same time, isolate the remarks blue them, you can create a different narrespace for each or them.

> Each of those names paces & dev, and, algority con have the own sot of policies that define "who can do what", you can also assign "quota of researces" to each of these namespaces. That way each name space



if required, the "web app pad" can reach a service in another namespace as well. For this appoint the name of the name space the rame of the souther For eg: - for the "wab pad" in the "default namespace" correct to the "database" in the "down environment" or "narrespace", we the sourcename. namespace. Suc. cluster, local format, that would be mysql. correct ("db-sowice.dev. svc. cluster. local"), you've able to do this because when the source, we roated, a DNE ordry is added automodically in this format looking closely at the DNS name of the Service, the last part cluster. local => This is the depault domain name of the kes SVC > H is subdomain for source followed by der >> Nomespare & then the db-sorvice -> name of the sorvice itself 1 Service mysql. correct ("do-service. dev. svc. cluster. local" dorrain Source Matthe Nomespace the grovational aspects of us now look at some namespaces. > lets stat with kube control commands

got pads . . . attraction that are kubect) command lists the pade in against romepay The above " set in "lay date" art indito see lists the pads in some other namespace, then use -- namespace = I name of the namespace) > kubocti get ports -- namespace = nubo-system * By default, if we explicitly didn't mordron the namespace, then the "resolutio" will get created in "default namerpace" we can merteon the namespace of they in Mulect Create & Red defendant you * Manifest file, under "metadate" * Kubacti Create apply Command Ped-definition. Ynl api Version: V1 Kind: Pod metadata: name: myapp-pod nomespace: dev labols: type: front-end Spec: containers: -name: nginox-container Amage: nginoc to was an su told sharm is fortin

where

constoner.

Carte Abnequire appear to a street "homeyona definition of the" method. apillowien: My way so to to knist: Namespace metadata: rane: devenue and the skubectil create of namespace-dev.yml nameyorce/dev created incentive command of direction is and Hubert create namespale dev namespace/dev created Woodly, by dojault, KBS objects will get created in "apolt namespace, but it we want to create "objects' in "der" ramespace. "PERMENANTLY", for which we will use "Kubect Config" Command to Set to "namespace" in the covert context to "dev" > kubect) config set-context \$ (kubect) config current-context) in each, in the man, in No, if we do, Kubactl get peds The we'll see all the pods under dev narrospace dimelarly we can switch to "prod" namespace the

To view resources in all namestrace, we this and Kubectl get pods -- all-namespaces This will list all the pools in all of the namespaces Undorstanding the kubect config command > knobect config set-context of (nuted) config current-context) -- narrespace = dov 8 From 8 understands the current context 8 then sets the namepare to the desired are.

f contexts are used to mariage multiple clusters a multiple environments from the same management system. multiple environments with the control of discuss latery which we will discuss latery with the wind of the discuss latery and discuss latery as display stone at trans on the took anything Resource Quota

To limit resources en rarraspace, create a resource

unta To create resource quota use manifest Feb. specify the quite namespace you which you want to create the quota, and specify the limets, under "spec such as 10 pods, 10 cps units, 10 GB byteg memory, etc., dog lop thatel suggested " valo " return door at the