128
Self Healing Applications

CKA. Paoba Paduross paraba not post of

129. Introduction to Acto scaling

* Havit xontal Pad AutoScaling (HPA)

* Vostral Pad Autoscaling (VPA)

Mortifical Scaling

Brook on times, apps hosted on physical scancers with

percologunal CPU memory capacity, of what happons when load

servicences of the own out of existing sterences on scenters

application & added mose CPU (or) mornary resources to 12 application powered at back up. This is Vartical scaling

Basically wherease the sixe of the existing somer voluntees to an existing somer by adding more CPU & momory comparent to it vertically by adding more CPU & momory comparent to it vertically

Hosexertal grating the application apported numbers in multiple instances another thing we could have avoided have added outdown the source, instead we could have added more sources to it. It shorted load by them

Running more unblances of apps by adding more
Sources as known as hostisantal scaling
Vortical scaling => Adding more sesources to existing
application

Hostizontal scaling >> Adding more unstances on more sombas to your system

are of the maps purpose of a contained conchestrator the KBS is to host offer in the from of containers & scale up and down based on domands + Scalling cluster Intra M Scaleng 2- scaleng Worklands. _ 1485 Scaleng workloads we can scale to weekloads by adding as remaining containors our pools on to the cluster. Scaling underlying cluster & scaling cluster Infra 3 adding an enough grand som grindmare to pribbo at trace trace see suits quitant your chuster we lead early promise Scaling Cluster Infra: 1) Horizontal scaling 2) Vostical scaling Hastizontal scaling cluster! Yortical Scaling cluster: In croasury the suspensions on executing notes in the Scaling work loads * Vortical Scaling * Hast zontal Scaling Have Kental Scaling! - to stone between stronger of extension more pads Increasing the resources allocated to existing pods Vostical Scalling!

How to scale of scaling Those are 12 ways of Scaling * Marual way * Automated way.

Manual way of harixontally scaling cluster untra > Mornially perovision new mades

=> Than use the states partin leubeadra join ... Command to add new nodes to the cluster

when Pts come to Ventral scaling there is no Common approach used you kgs because '84 will result in having to take down the sound & apps surroung on them a tran add more resources to the covers a bring it backup. This we dent want to do. Dince most of the unitra those days are VMS, we could easily provision a server with higher resources, add it to the children & somewo the old SONO SO Northcal scaling is not common approach

Host xontal scaling weakloods manual approach Run the kubectl scale command on the washlood to scale up or down the noof pads

Vestical scaling weakload manual approach vortically scaling resources associated to a pad would would run to knowld adet command to go into that deployment or statefulset or replicaset & charge the resource units & requests associated with the pools day som puber)

mercasing the resources allocated to extending probe

determented approach for horizontally scaling the topical Automated appointing! what is known as the kes cluster autoscalar, we have use cort do anything in automated way to interms of wested evaluated in the power it is manually shutdown, scale up a power it is intermediately scaling the weakloads, we have what is known as the Horizontal Ped Autoscalor or HPA > For vortically scaling the workloads, we have the Vostical Pod Autoscales EN SIGO SEDIERONIGO dograf Deployancat I ! sortiger