## KUBERNETES

Owarkmate

Date
Page No

	Configuration Management
	·maintain all change in your intrastructure using soltiers
	· immutability
	NA C
	Managing Containers
	=> Monolithic Application
	· 3 application where companied (1:16.
	i.e. deplaced in an bundled together string
	i.e. deployed as one application so this is known as monolithic application.
	So to make application.
_	you have home In any component
_	So to make any change in any component  you have have he deploy everything again. cies.
_	To solve this problem me use microsonvies.
_	microsonias.
_	Microsonias
_	
_	So has
	Ex' you can deploy each component seperately
	Fronten 8 -> SI Servers
	Backend -> 52
\	Databar > 53
\	Moragus -> 12
\	Networking - 5)
_	

Fault issolation

· toams divided on frontend, backend, etc.

How to manage? How to Communicate? Service Mesh

One application for one vintual mechine This is hell for scaling hence. Docker

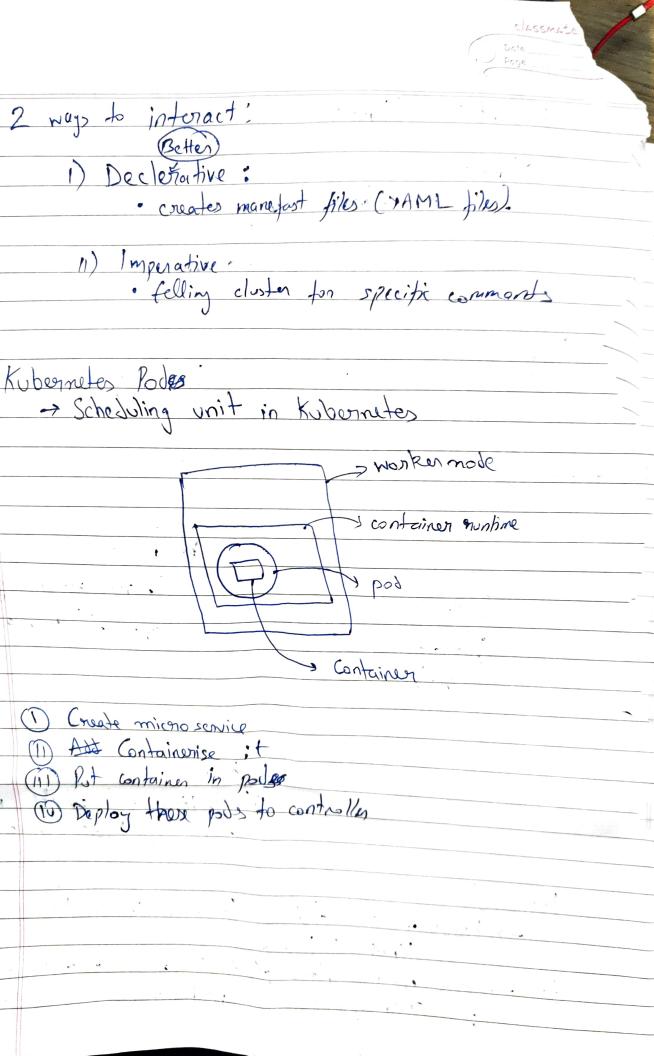
Dev ops (Developer a Operations) Container \$ Jocken oran hollo-world. non an image to oreste a Hom docker image pook? -> dacker ineger contains os tiles and app dependencies. Images are took built in layers. collection of files and directories How to create your own docker image? Dockenfile

From 17:08 Orchestrators -> helps deplojing and managing application. Ignamically objections sometimes scale head containing cloud native application mets modern buisnesses demands and follows 20 all the above principles & also runs Kubernetes. Not sames as cloud computing Kubernetes -> It is much more than a container our hostrator o. U can mun. it a in un own cloud on mechiner on cloud providers · migrale from to other provider · suplicate, salt scale on services · zero donntime, fault touleveny, etc · can use volumes. ((x) ennel stonage) · can show secret into (passion). Grangle made K8s (Kubernetes) & donated to CNCF

Kubandes (luster Cluster control plane + nodes Ly M Kube ct | Worker mode (place where your Control plane. app will be morning) (manage) (spour mode) . Kubometes cluster Collection of all the worker modes of control plane) Kubectl -> Kubernetes cli (command line tool) likes & docker on git

Ex -> tells control plane start 10 app, control plane
will check for empty worker nodes.

classmate



2 ways to interact:

Better Decletion tive:

) Create micro service

(1) Att Containerise ; t

(11) Put container in poles

(1) Deploy their pols to controller