Kubernetes: (K85) => L. Container Manager Orchestrator
[C1] [C2] [C3] => Developed by 6700gle => 2014 Why we Need Kusernetes? => Microservices ore highly dynamic in nature. => Microservices Complexities - We need Automation

· Automatic Scheduling

· Automatic Confriquention

· Supervision

· Failure Handling

This is where Kuberaetes comes in. Kuserrety will help us - to manage large scale opplications

Benefils of Kubernety. 4 Korbiners

(1) Autosculing Scale Down [1] [2] [4]

Scale Down [1] [7] C1 (C2) 2 continely 2 havel Balaning Regusts (2) 3) Self Healing
Restarts the Juntly Container South Continu Health If contained is not responding of any other fruit-exist. I Kuserretes will restort it.

G Scheduling: => He con Schedule tustis. Backups ==> 11 pm 16 will automatically take boekays at 11 am. Kubanetes Architecture Abstruct View Worker Norte 2 World Norte 3 Responsible for & Manaying Resources Rons Our Application

Kubernetes Clustel: Worle 3 Worker Nole Maylel etcd Api Sower Schedular

	Moster Norle
	Schedulas:
	Distributing containers across
	multiple nortes
-	16 hooks for nearly created
	11- hooly for nearly created Containers Ef assign to norty
_	Resources Vilization
	-cpu -memory
	Controlle Manager:
	Orchestration => Replicas
<b>—</b>	( regime - and
	leeping tracker we
	Noticing when contained
	Noticing when contained goes down
	etcd
	Pula Store
	Clusters
	· —

	API Servel:
-	
-	Acts as a front-enel for lowsevely CLI bulles to API server.
_	CLI Lulles la API Servel.
	/ / A
	Horlar Norle
	Continue Runtine
_	underline software la run
	contriners
	Kublet
	Agent that runs in each norte
	- Responsible to make sure that the containers are running on modes as expected.
	that the containers are
	Unning on nudes as
	expected.
	· · · · · · · · · · · · · · · · · · ·

