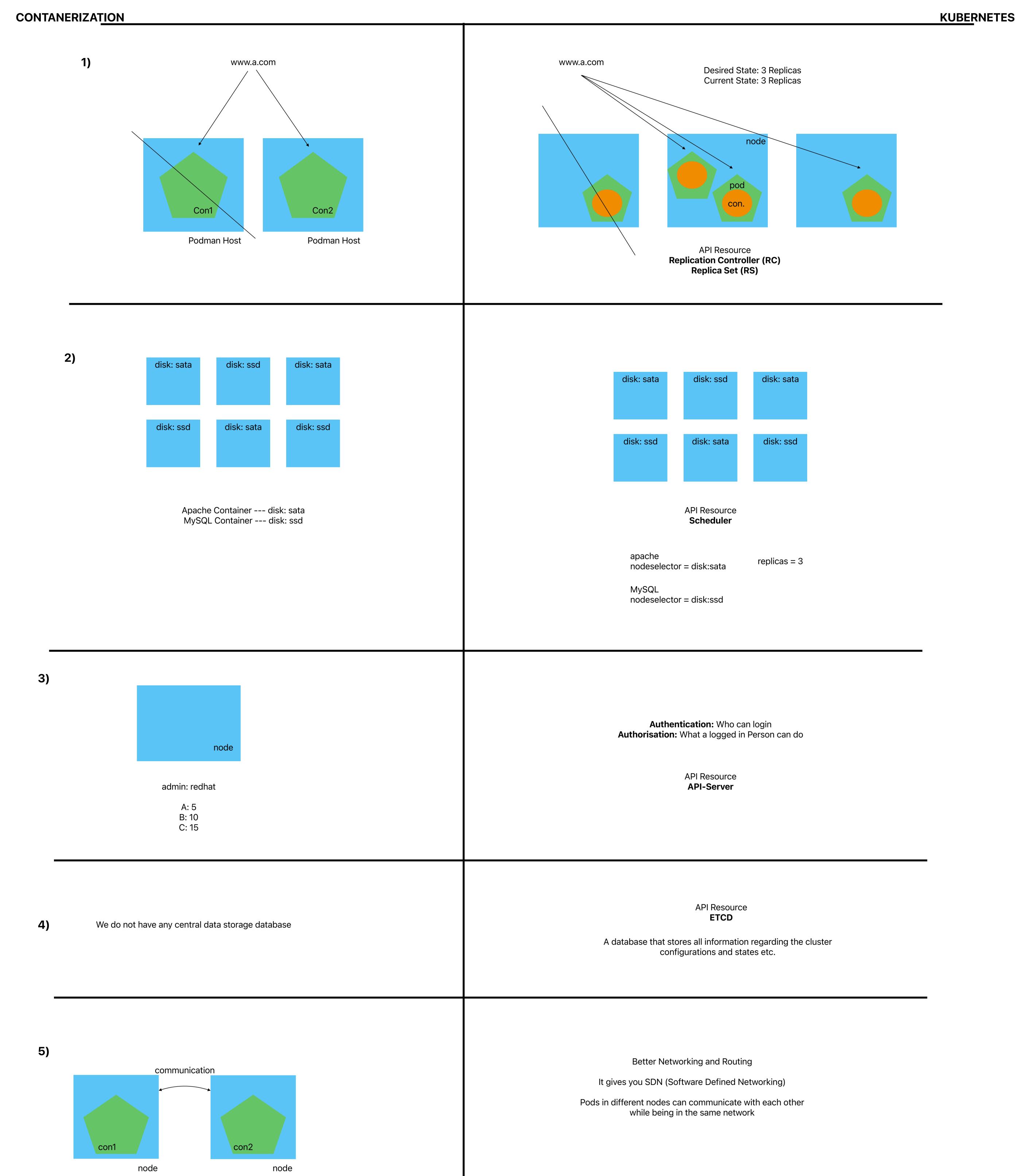
KuberenetesIt is a Container Orchestration Tool

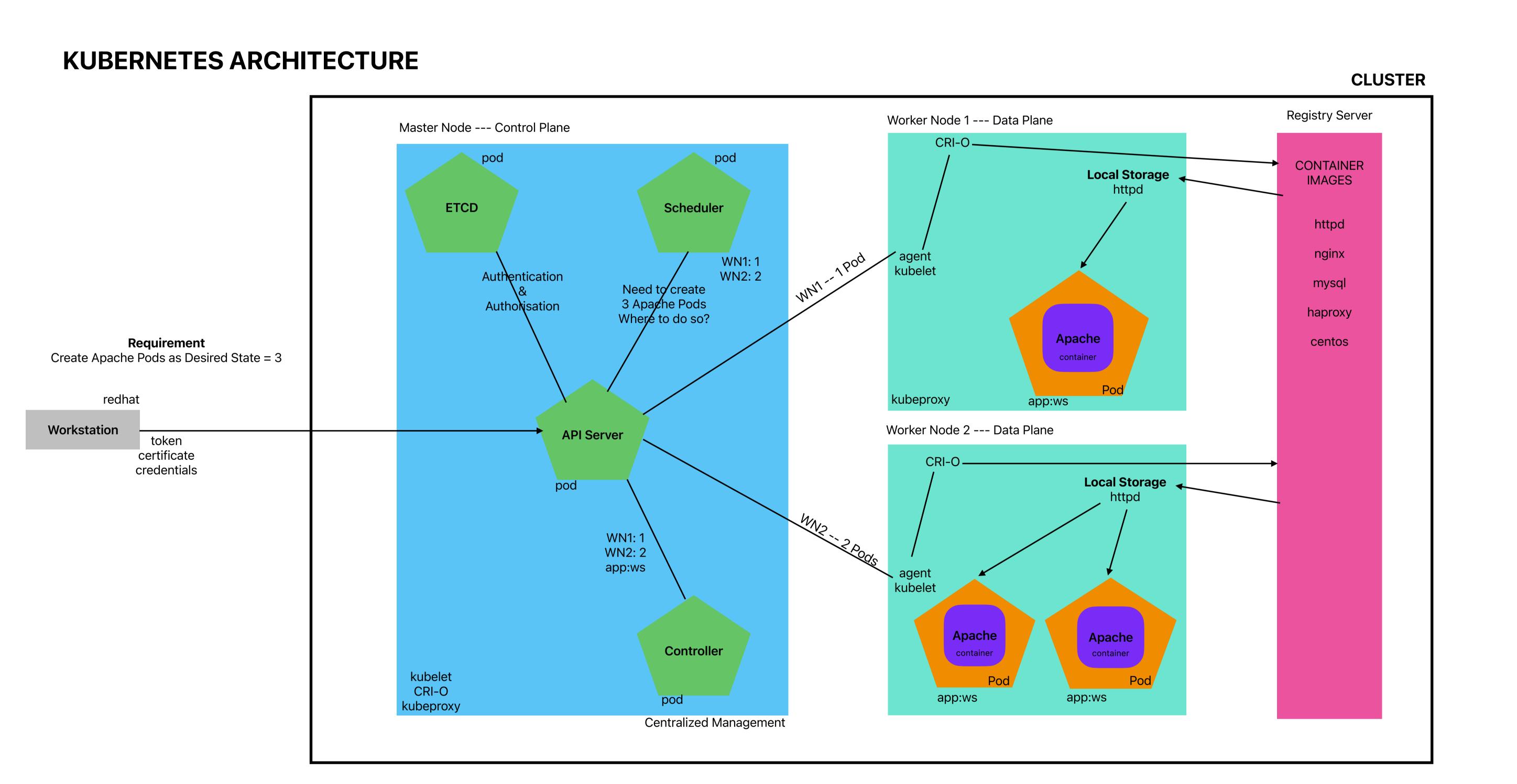
Pod: Collection of Containers also, it is the smallest unit in terms in Kubernetes

API Resources: All the Kubernetes related Resources

Replica : Copy of a Pod Node : A Server

Cluster : The whole Environment --- includes all nodes, all api resources





<u>OpenShift</u>

It is 80% all about Kubernetes, it works on top of it and adds some extra features and functionality

Developer --- index.php

You want deploy it

NORMAL CASE SCENARIO	
 Need to create a Containerfile / Dockerfile, to set all parameters according to his/her requirements. Create an Image using the Dockerfile. Upload that Image to a Registry Server. Need to create a Deployment which will create the RC/RS which will create the Pods Need to setup the Networking Enjoy the Application 	CaaS
USING RED HAT OPENSHIFT PLATFORM	
 Need to create a Containerfile / Dockerfile, to set all parameters according to his/her requirements. The Developer can send his/her Dockerfile to OpenShift. Automatically create an Image using the Dockerfile. Automatically upload that Image to a Registry Server. Automatically create a Deployment which will create the RC/RS which will create the Pods Automatically setup the Networking Enjoy the Application 	PaaS
USING RED HAT OPENSHIFT PLATFORM	
 Developer has to upload the content onto a GitHub Repository Provide OpenShift with that repository. OpenShift will analyze the content and find the index file and accordingly use a builder image. OpenShift will create a Dockerfile from the builder Automatically create an Image using the Dockerfile. Automatically upload that Image to a Registry Server. Automatically create a Deployment which will create the RC/RS which will create the Pods Automatically setup the Networking Enjoy the Application 	S2I Source to Image

Kubernetes	OpenShift	
Caas	PaaS and S2I	
OpenSource	Enterprise OpenSource okd	
Installed on all OS CentOS, RHEL, Ubuntu	Master Node has to be mandatorily rhelcoreos 1. lightweight 2. updates a single package 3. immutable Worker Nodes can be rhelcoreos / rhel	
No Preconfigured Console No Preconfigured Monitoring Tool No Preconfigured Logging Tool No Preconfigured Ingress Controller No Preconfigured Registry Server	Has Preconfigured Console WebGUI Has Preconfigured Monitoring Tool Prometheus, Grafana Preconfigured Logging Tool ELK Preconfigured Ingress Controller Router Pods Preconfigured Registry Server Internal OpenShift Registry	
Containers run with Root privilege SeLinux is Permissive	Containers run with random user SeLinux is Enforcing	