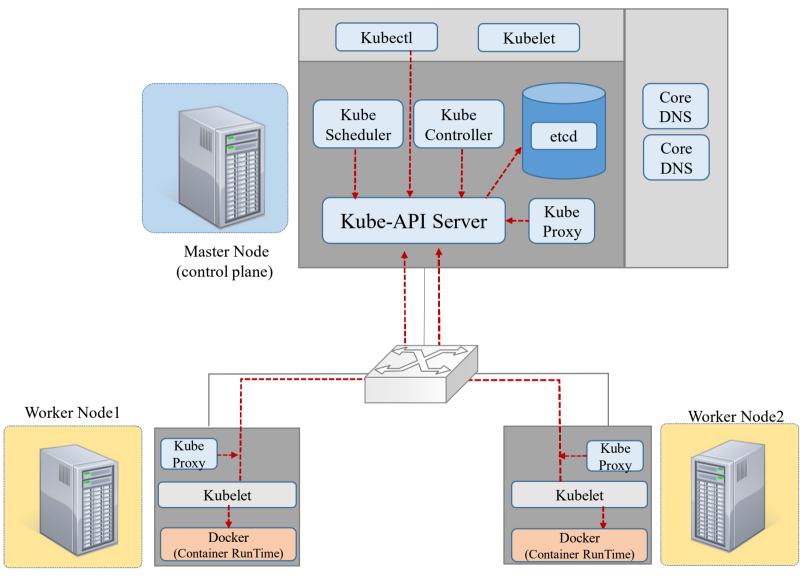
명령어 kubectl

#kubectl create deploy web --image=hub.test.com/nginx



kubectl

- k8s에게 원하는 작업을 요청 시 사용하는 명령어
- k8s cluster를 관리하는 동작은 kubectl이라는 Command line interface로 실행
 - K8s 자원들의 생성, 업데이트, 삭제 (create, update, delete)
 - 디버그, 모니터링, 장애처리(log, exec, cp, top, attach..)
 - 클러스터 관리(cordon, top, drain, traint…)

```
root@masternode:~# kubectl --help
kubectl controls the Kubernetes cluster manager.
 Find more information at: https://kubernetes.io/docs/reference/kubectl/ove
Basic Commands (Beginner):
  create
                Create a resource from a file or from stdin
  expose
                Take a replication controller, service, deployment or pod a
                Run a particular image on the cluster
  run
  set
                Set specific features on objects
Basic Commands (Intermediate):
  explain
                Get documentation for a resource
  get
                Display one or many resources
  edit
                Edit a resource on the server
                Delete resources by file names, stdin, resources and names
  delete
```

kubectl --help

kubectl 명령어 형식

kubectl [command] [TYPE] [NAME] [flags]

Command	자원에 실행되는 동작	create, get, delete
TYPE	자원타입	pod, service, ingress
NAME	지원이름 자원이름	
Flags	부가적으로 설정할 옵션	help, -o wide

- (ex) kubectrl get pod WEBServer -o wide
 - → WEBServer 이름을 가진 Pod 자원정보를 자세히 확인

kubectl --help

kubuctl run --help

```
root@masternode:~# kubectl run --help
Create and run a particular image in a pod.
Examples:
  # Start a nginx pod
  kubectl run nginx --image=nginx
  # Start a hazelcast pod and let the container expose port 5701
  kubectl run hazelcast --image=hazelcast/hazelcast --port=5701
  # Start a hazelcast pod and set environment variables "DNS DOMAIN=clus
container
  kubectl run hazelcast --image=hazelcast/hazelcast --env="DNS DOMAIN=cl
  # Start a hazelcast pod and set labels "app=hazelcast" and "env=prod"
  kubectl run hazelcast --image=hazelcast/hazelcast --labels="app=hazelcast"
  # Dry run; print the corresponding API objects without creating them
  kubectl run nginx --image=nginx --dry-run=client
```

실습 1.

- kubectl get nodes
- kubectl get nodes -o wide
- kubectl describe node master

• watch kubectl get pod –o wide

실습 2.

- kubectl run web --image=nginx:1.14 --port 80
- kubectl get pods
- kubectl describe pod web
- kubectl get pods -o wide
- kubectl get pods web -o wide
- curl 10.42.0.1

실습 3.

- kubectl create deployment mainserver --image=httpd --replicas=3
- kubectl get deployments.apps
- kubectl describe deployments.apps mainserver
- kubectl get pods
- kubectl get pods -o wide
- kubectl get pod mainserver-6c9cbf6cb7-nrx17
- kubectl get pod mainserver-6c9cbf6cb7-nrx17 -o wide
- curl 10.40.0.1

실습 4.

[Home 페이지 수정]

- kubectl exec web -it -- /bin/bash/ cd /usr/share/nginx/html
 cat index.html
 echo "HEllo~~"" > index.html
- exit
- curl 10.42.0.1
- kubectl logs web

ufw disable

실습 5.

- kubectl delete pod web
- kubectl get pods
- kubectl delete deployment.apps mainserver