

## k8s

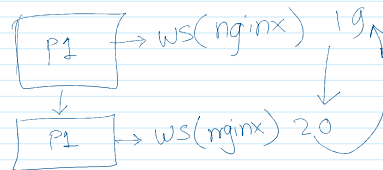
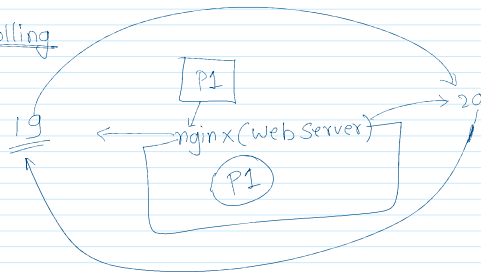
- Architecture.
- Nodes
- Pods
- Deployment
- Service.
- Scale (up/down)

✓ • Rolling (updates/Back)

✓ Conf (Ansible)

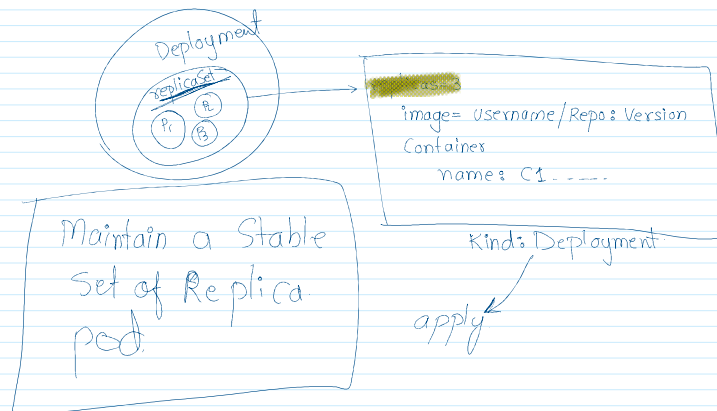
- ✓ • Architecture.
- ✓ • Components

### \* Rolling



### ① Deployment (nginx-deployment.yaml)

```
- md
- spec
  replicas: 4
```



```
$ cat > replicaset.yaml
apiVersion: apps/v1
kind: ReplicaSet
metadata:
  name: example-replicaset
spec:
  replicas: 3
```



```

selector:
  matchLabels:
    name: app
template:
  metadata:
    labels:
      name: app
spec:
  containers:
    - name: app
      image: learnk8s/app:1.0.0

```

```
$ kubectl create -f replicaset.yaml
```

```
$ cat > deployment.yaml
```

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: example-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      name: app
  template:
    metadata:
      labels:
        name: app
  spec:
    containers:
      - name: app
        image: learnk8s/app:1.0.0

```

```
$ kubectl apply -f deployment.yaml
```

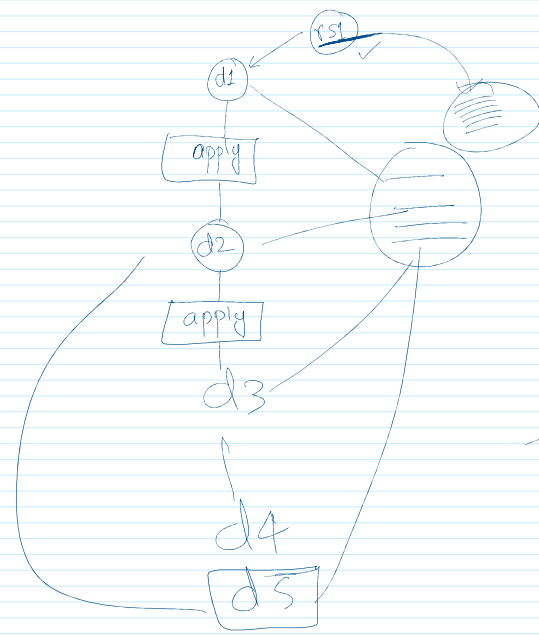
```
$ cat > deployment.yaml
```

```

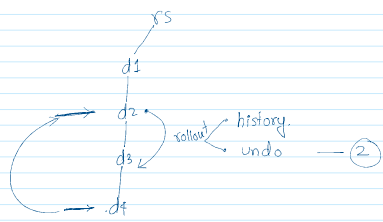
apiVersion: apps/v1
kind: Deployment
metadata:
  name: example-deployment
spec:
  replicas: 3
  revisionHistoryLimit: 100
  selector:
    matchLabels:
      name: app
  template:
    metadata:
      labels:
        name: app
  spec:
    containers:
      - name: app
        image: learnk8s/app:1.0.0

```

```
$ kubectl rollout history deployment/example-deployment
```



to-revision



Kubectl rollout → history  
undo

- ① Create RS
- ② Create Deployment
- ③ Apply
- ④ update deployment
- ⑤ Apply
- ⑥ History
- ⑦ Undo

```
$ kubectl rollout history deployment/example-deployment
```

```
$ kubectl rollout undo deployment/example-deployment --to-revision=1
```

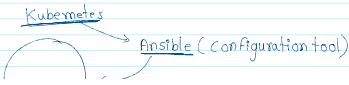
```

$ kubectl get deployment example-deployment -o json
$ kubectl get deployment example-deployment -o yaml

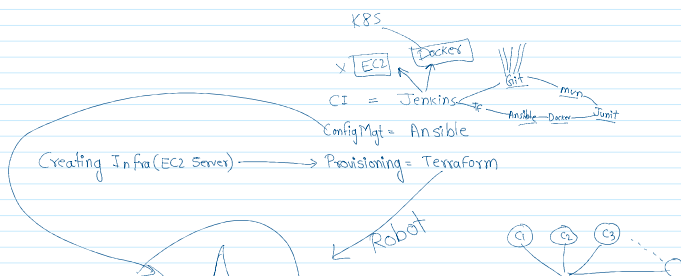
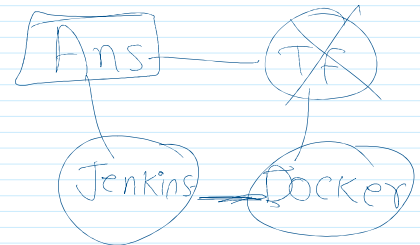
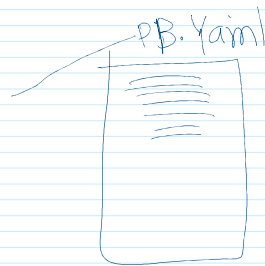
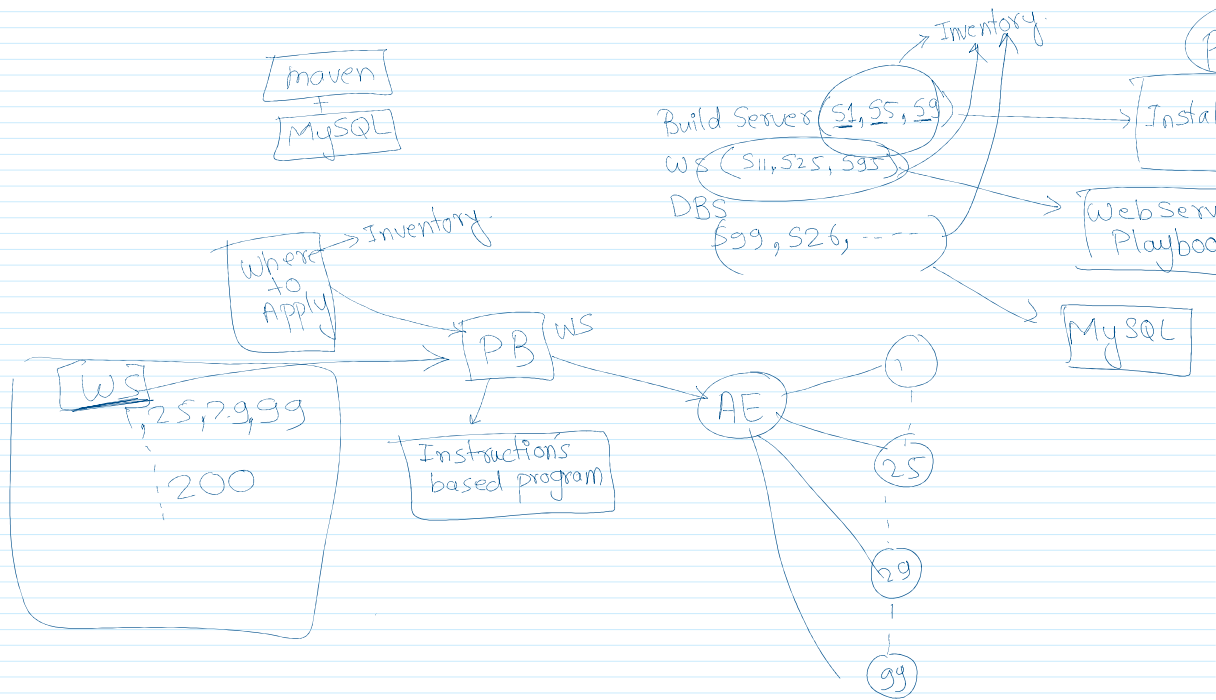
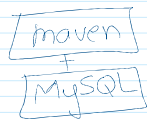
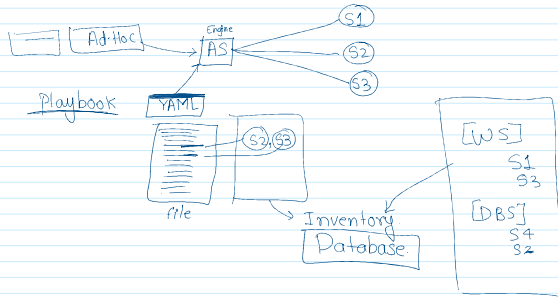
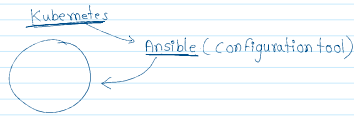
$ kubectl get replicaset example-deployment-10 -o yaml

$ kubectl create -f deployment.yaml --record

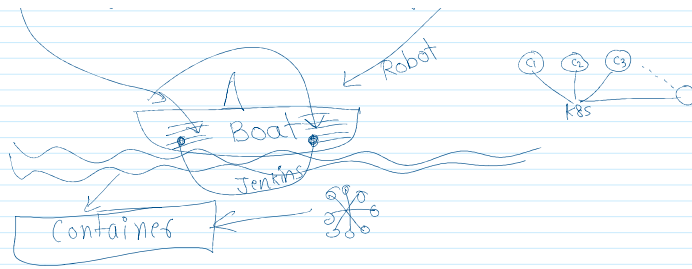
```







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(Maven)  
es  
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### SysOps

- TF ✓

- Ans

- K8s ✓

- Docker ✓

### DevOps

- Jenkins

- Maven

- Github

- Code

