

06.04.24

Pod - imp dec

kube run

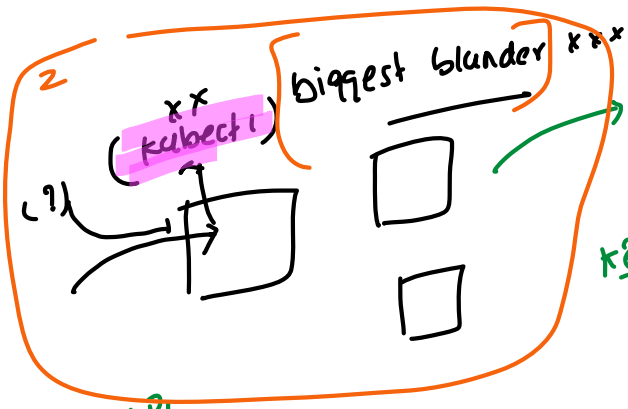
Pod-name →

API

k1

me

Spec →



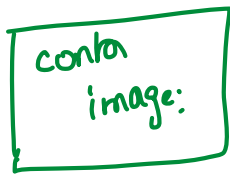
(RBAC)

k8s ns.

Pod

≡

Pod →



PodName

cont

Application

Single Instance (Pod)

Single App

Pod - (single instance) x

Rc. RS.

multiple { n }

replicas.

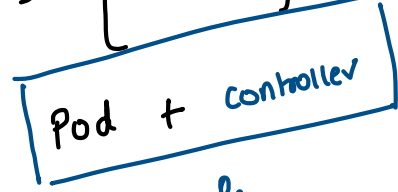
Replica Controller



(P1 P2 P3)

cont → { image }

{ Pod Spec }



Re

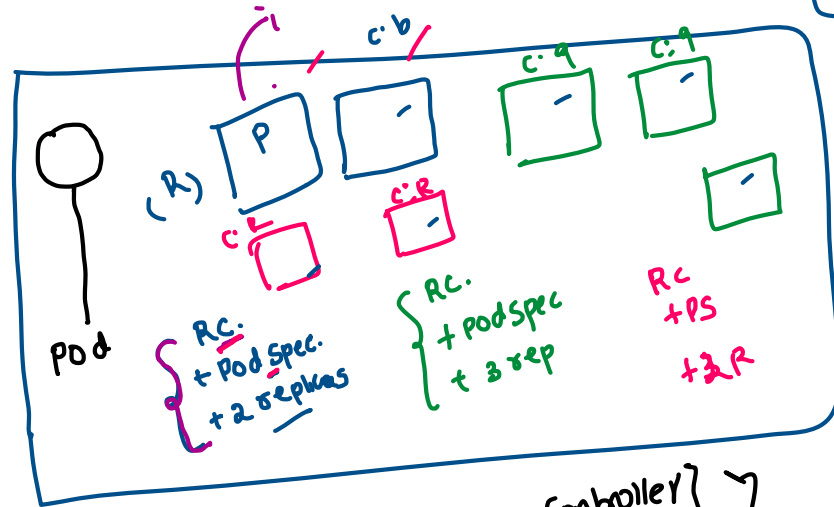


RC labels

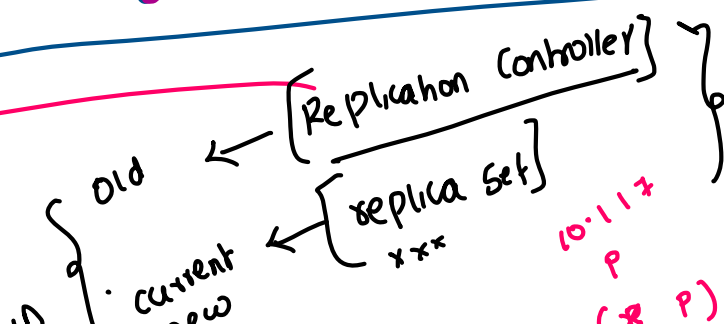
A = desired

2 = 1

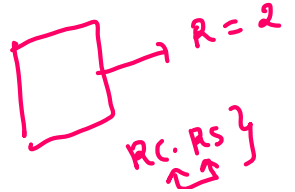
(color = blue)

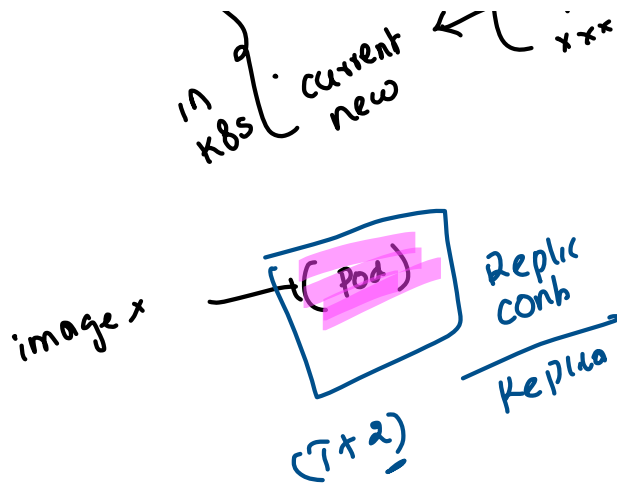


Primary



mgn to pod





$Rc = (P)$

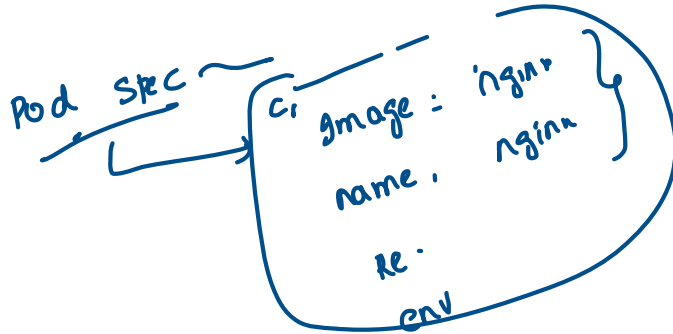
07:00
10.1.1.4

Rc, Rs

$Rc: spec$

Pod (?)

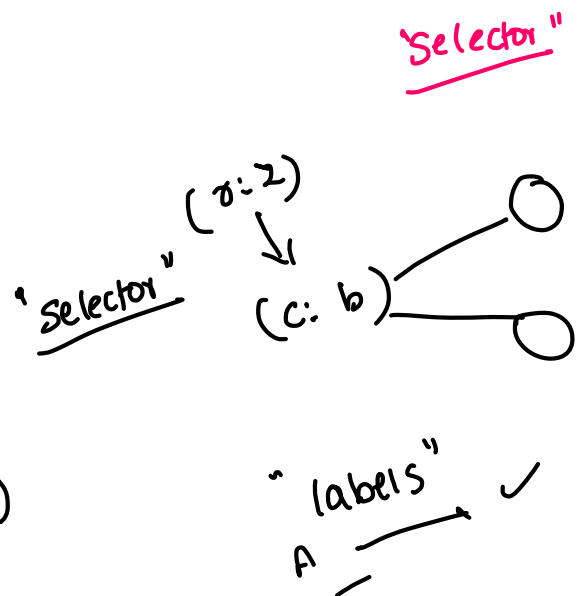
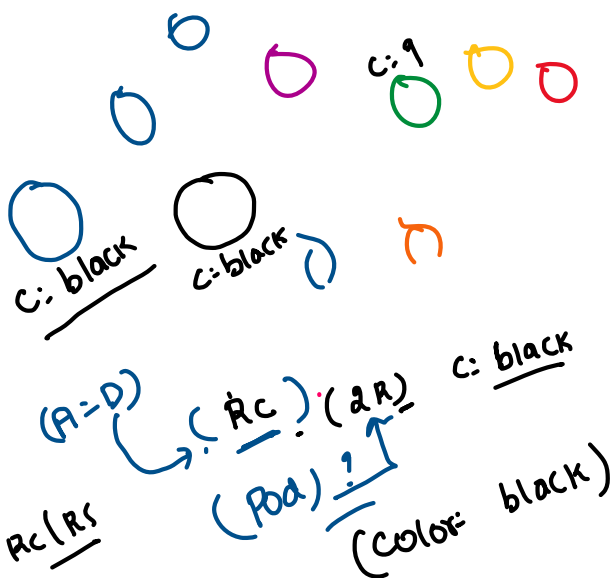
Replicas

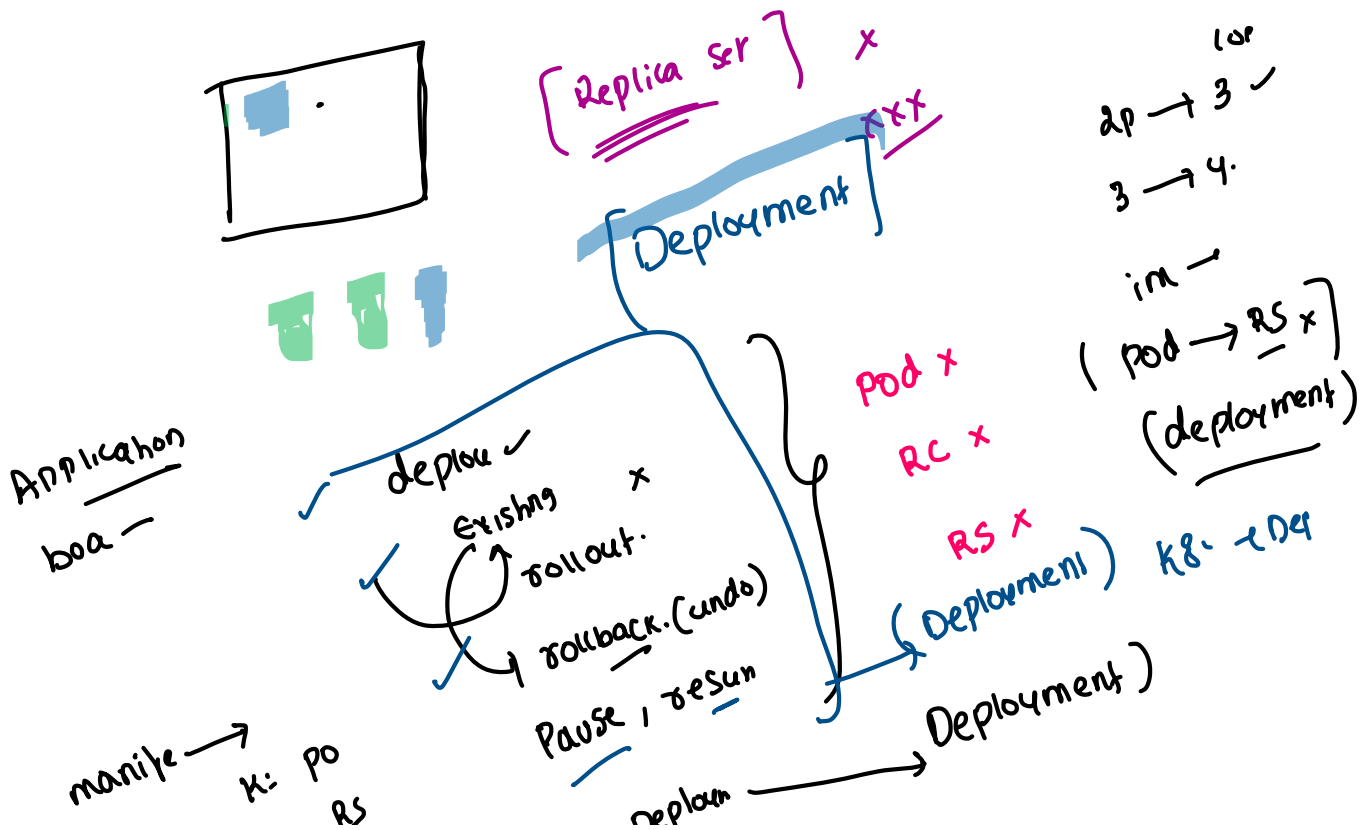
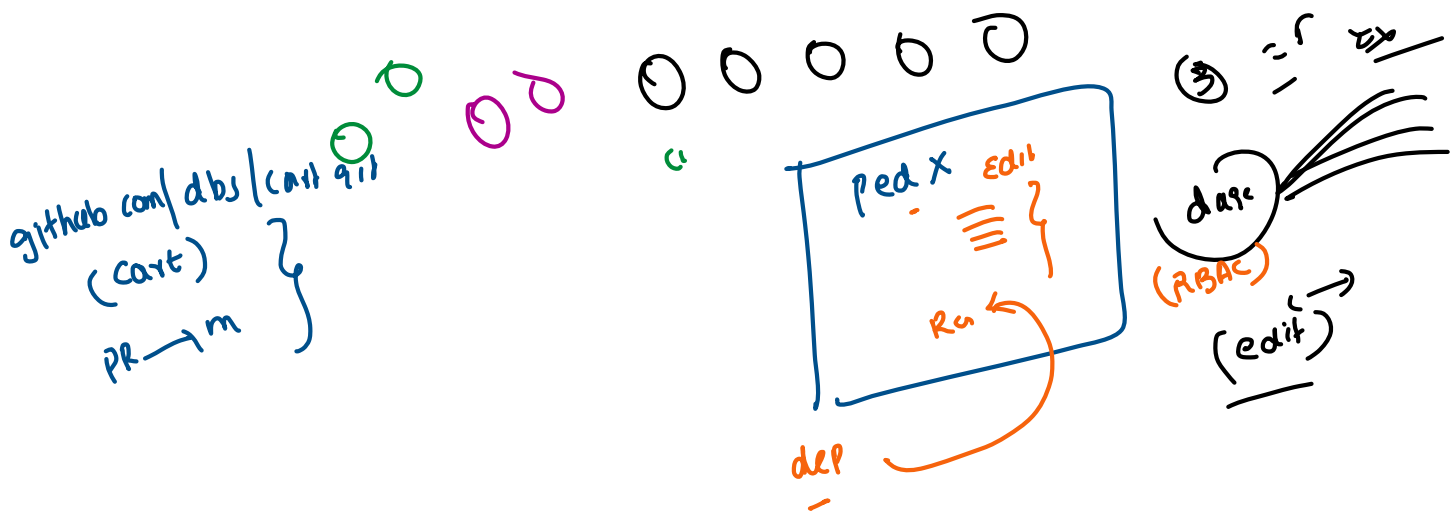
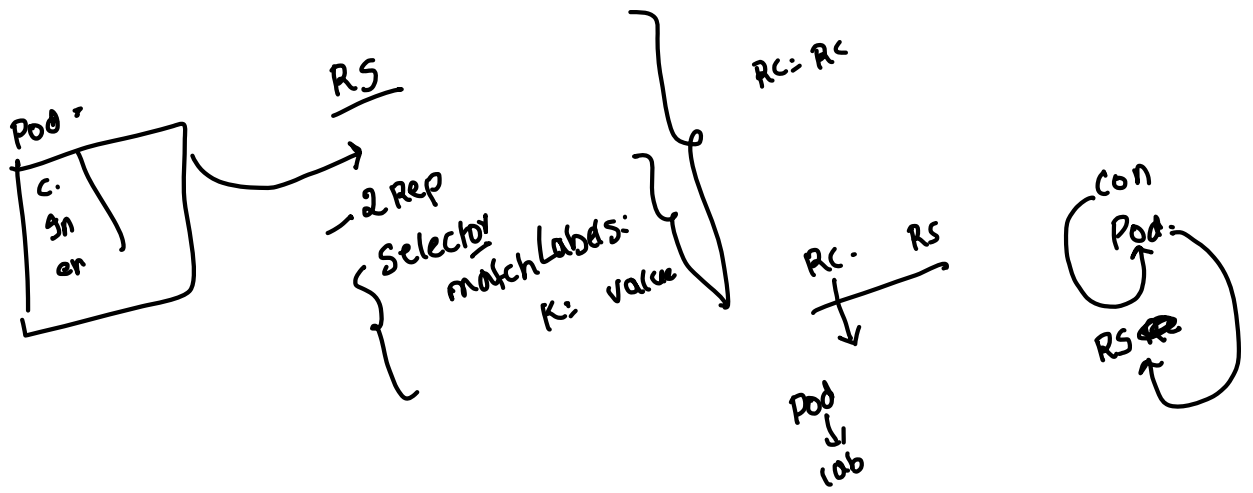


(Rc, Rs)

$Rc: pod spec + 2 Replicas$

$Rs: pod spec + 2 Replicas$



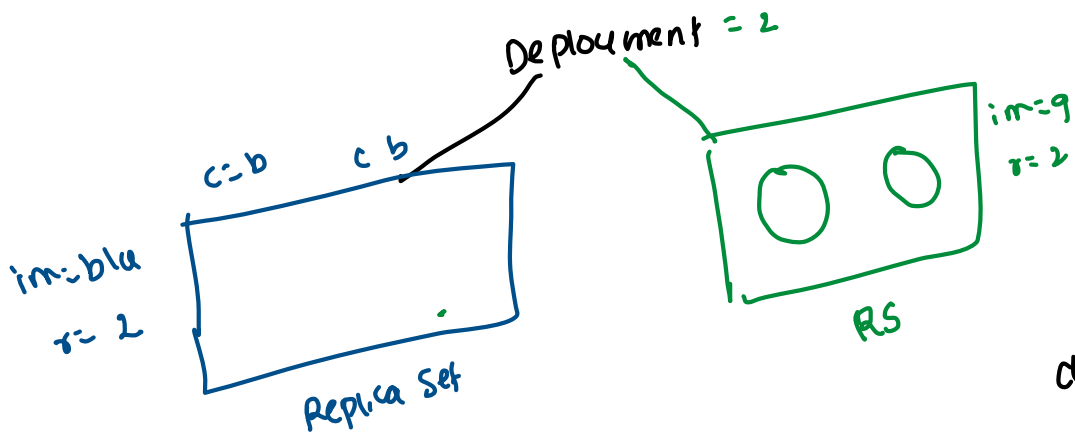
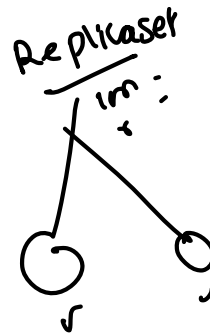
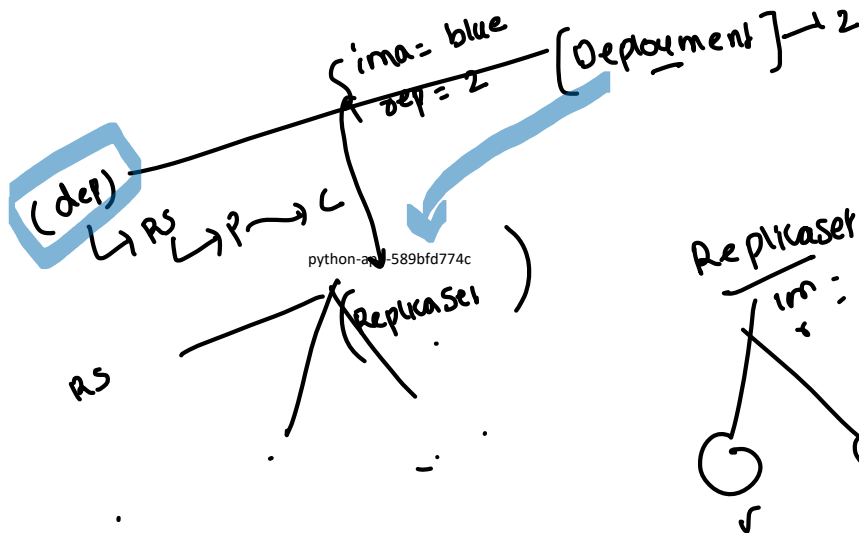


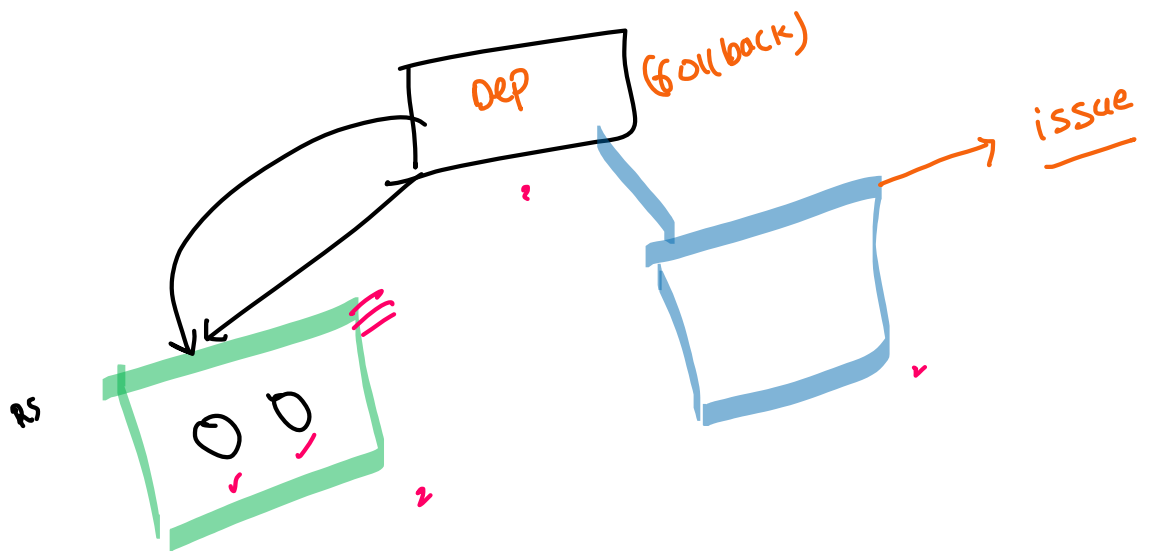
manife →
 K: PO
 K: RS
 K: RC

Yau
 K: Deplam → CC

ima.

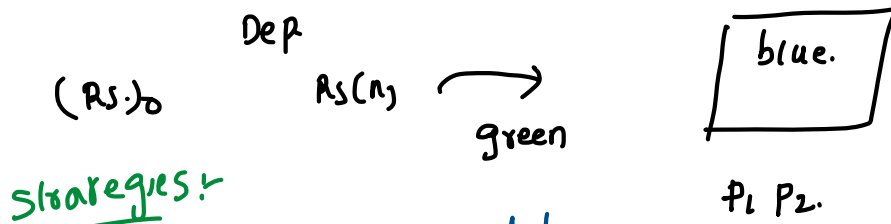
✓ RS → [python-app]
 ↳ python-app - xxx
 ↳ - xyz
 ↳ - abc





Deployment

roll
v/r
rollout
rollback



Strategies:-

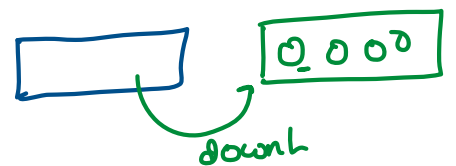
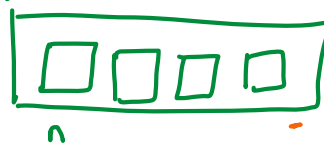
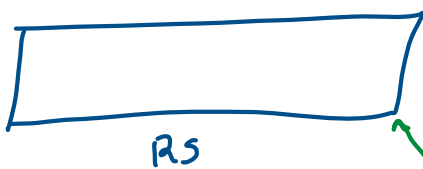
- x) rolling update.
- x) recreate.

K. rolling update }

$$Dep = 8 = 4$$

$$4 + 1 = 5$$

rolling update.



4 old pods: 0 0 0 0 → nginx → (1-18)

✓ maxUnavaila : 25% (99 9.1) 4 old 4019 1-18

4019 1.18

4018 — 1.18

1 new → 1.19

3 + 1

2 + 2

1 + 3

0 + 4

0000 → ?

Cost \rightarrow 3 pods

	P_1	P_2	P_3
1 CPU	1c	1c	1c
1.2	1.2	1.2	
<hr/>			
	3 CPU		
	3.6		

25%

0	0	0
<hr/>		
4 CPU		
3.6		
1		

7 CPU
6.4

dev env
10 CPU
8 GB

NS (microserv - dev)
30 micr
3 pods
90 | 120 pod

yes →

Roll

reg
se
↓
dev

2

2

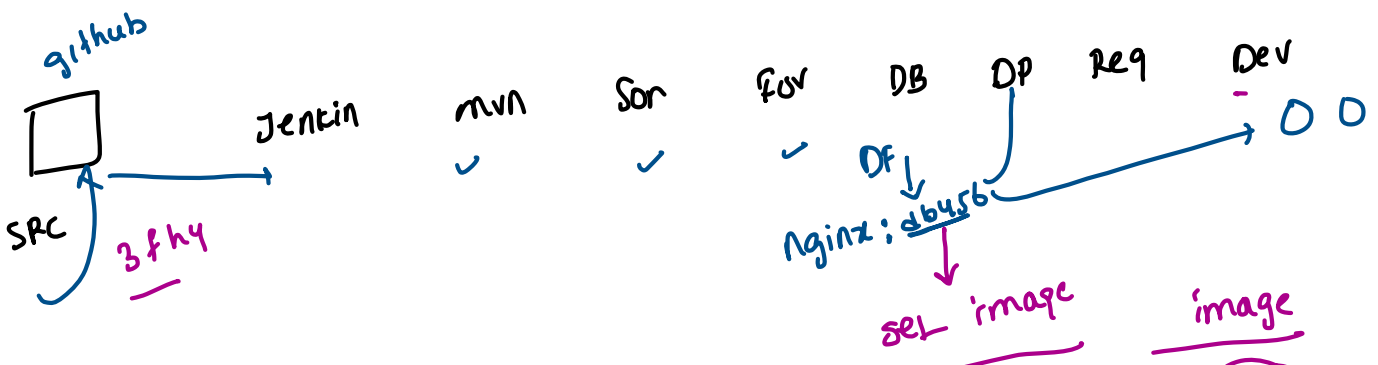
xxx ○ ○ ○

budget

roll

reg
sect
↓
de

→ rolling update
default

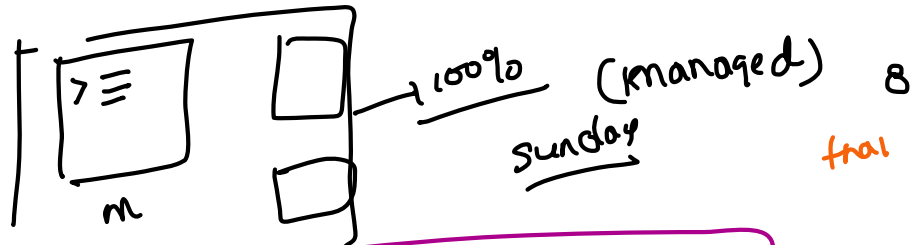


✓ —

set image

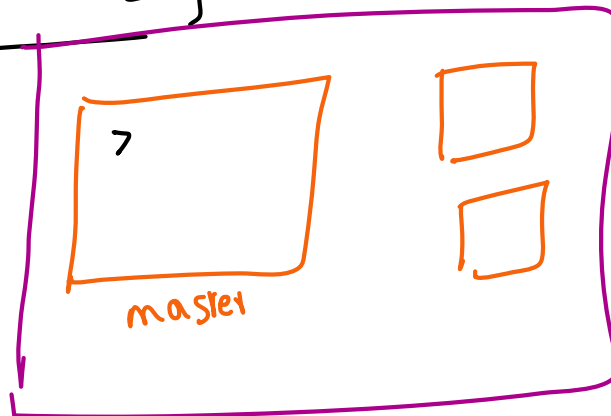
image
Eagran

Kubectl



trial

Jump
1 App



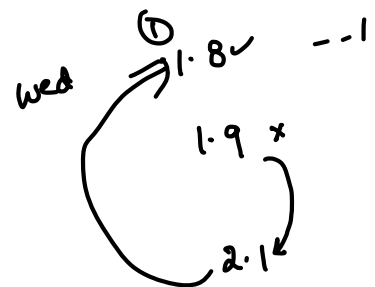
06/04/2029

RS
cert
user 15

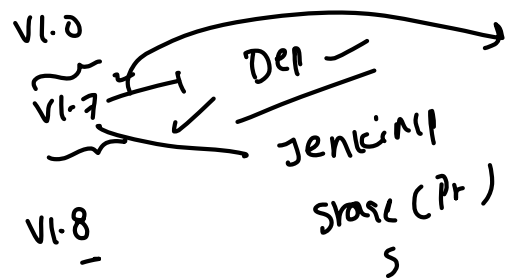
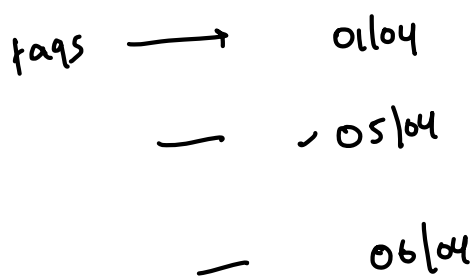
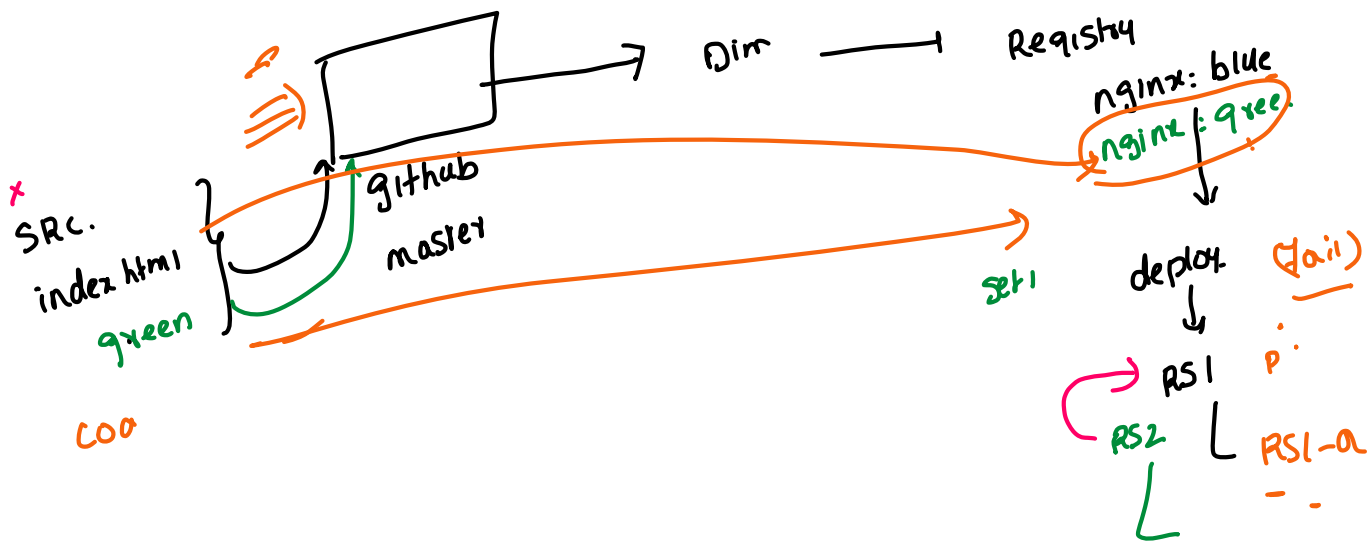
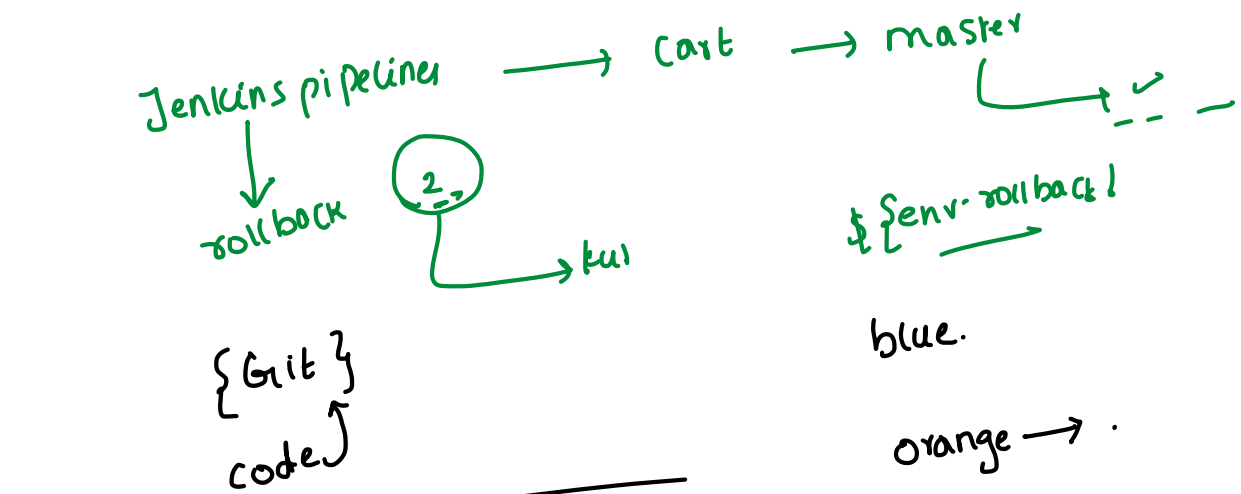
deployment



blu → DRAs
rollout
undo



no line → cast → master



07

