

What is Rolling Deployment?



Rolling Deployment

Rolling deployment is a deployment strategy that slowly replaces previous version of H	
application with the new one	
by neplacing the underlying infrastructure	vl vi vi
for example, in K85 containers running on EC2 machines running the service * The infra replacement happens while	e are replaced one by one
Incremental, and not instant 2 =	The Rolling Deployment is incremented, hence during the time of deployment there cuould be some Servers serving the New version while others
Hence, depending on which server the nequest goes to the nesponse of the corresponding version would be generated	serving old.

How to implement Aolling Deployment
Rolling deployment is always done gracefully
1. Pick a server for deployment []
2. Stop the incoming traffic to it $= \begin{bmatrix} 1 \\ 3 \end{bmatrix}$
- remove it from the load balancer Servers
3. Wait for existing stequests to be completed
4. if no infina replacement
- pull the latest code/artifact Restant
- nestant the processes
5. if infra replacement
- terminale the server
- create the new server with the new code
6. attach the server to the load balancer
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Tuning stolling deployment	
1. Concurrent Servers	
Inskad of picking 1 server for updak	
at a time, tue can pick `n` concurrently	
- faster deployments	
'n' should not be too small or too large	
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2. Double-Haif Deployment	
A common way to implement stolling deployment	
9 . 9	
is to double the infra with new code and	
bring it back to soniginal copacity	
4 8 4	
Ensure that your DB,	
Cache one able to handle	
lange number of connections	
3. Terminale one and spin one with new code	

Rios of adopting Rolling Deployment

- Much faster than Blue Green deployment - Deployment incurs zero docuntime

- Pollouk are gradual

- Rollbacks are simple

Cons of adopting holling Deployment

- Any defects affect only a fraction of stequests

- cost efficient deployment strakgy

- No envisionment isolation blw the old and the new

- Changes we rollout has to be forward compatible

- Stateful applications will be offected during deployment

- Deployment takes a long time to complek

- Changes we rollout has to be backward compatible