Docker Swarm Rolling Update & Rollback

Docker swarm updates

- Docker swarm supports various options to perform rolling updates and also rollback (if something goes bad)
- Let us create a simple Swarm using a sample voting webapp called instavote/vote
- >docker swarm init --advertise-addr MY_IP
- Let us create 4 replicas of our web-app
- >docker service create --name vote --replicas 4 --publish 5000:80 instavote/vote

Docker swarm Rolling update

Check if the application is up & running fine

http://localhost:5000/

 Let us now update the service to a newer Image instavote/vote:indent

>docker service update --image instavote/vote:indent vote

Check the pattern in which updates occur

Preparing > Ready > Starting > Running

Docker swarm Rolling update

- Each Node is updated one by one (Rolling Update)
- Can be customized using the following configuration
- --update-parallelism: number of tasks to update at the same time
- --update-delay: time to wait before updating the next batch of tasks

Docker swarm Rolling update

- Let us configure our Swarm update to update 2 nodes in parallel and let us set a 10s delay between such batch updates
- >docker service update --update-parallelism 2
- --update-delay 10s vote
- Let us perform a new update with this configuration
- >docker service update --image instavote/vote:movies vote
- Check the node update pattern

Docker swarm Rollback

- Any service update to a swarm cluster can be easily rolled back since swarm knows about the previous deployment
- >docker service rollback vote
- Uses default rolling update configuration for rollback and if needed, parallel and delays can be configured using
- --rollback-parallelism
- --rollback-delay

Docker swarm Auto Rollback

• Using effective health checks for new deployments, automatic rollbacks can be configured for bad deployments