

Module-4: Orchestration in Docker

Demo Document - 6

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DEMO-6: Rolling Updates and Rollback

Note: All commands are executed as root.

Rolling Update

We will first deploy a tomcat v8.0 container and then apply a rolling update with parallelism value of 2

1. Deploying a tomcat:8.0 service

```
$ docker service create \
  --name <serviceName> \
  --replicas 6 \
  tomcat:8.0
```

```
root@docker-1:~# docker service create \
> --name rolltomcat \
> --replicas 7 \
> tomcat:8.0
s9c5jpplis1tx7ei2ssl4xt05
overall progress: 7 out of 7 tasks
1/7: running [=====>]
2/7: running [=====>]
3/7: running [=====>]
4/7: running [=====>]
5/7: running [=====>]
6/7: running [=====>]
7/7: running [=====>]
verify: Service converged
```

2. To apply a rolling update on the service we will use the update option and update the image to tomcat:9.0. Two tasks will be updated parallelly

```
$ docker service update --image tomcat:9.0 --update-parallelism 2 <serviceName>
```

We can see the service is updating two at a time

```
root@docker-1:~# docker service update --image tomcat:9.0 --update-parallelism 2 rolltomcat
rolltomcat
overall progress: 2 out of 7 tasks
1/7: running [=====>]
2/7: running [=====>]
3/7: ready [=====]
4/7: preparing [=====>]
5/7:
6/7:
7/7:
```

```
$ docker service ps <serviceName>
```

```
$ docker service ps <serviceName>
```

```
root@docker-1:~# docker service ps rolltomcat
```

ID	ERROR	NAME	PORTS	IMAGE	NODE	DESIRED STATE	CURRENT STATE
8cmg4rpf0wwu		rolltomcat.1		tomcat:9.0	docker-1	Running	Running about a minute ago
zcimvltovixr		_ rolltomcat.1		tomcat:8.0	docker-3	Shutdown	Shutdown about a minute ago
no6wobj0977y		rolltomcat.2		tomcat:9.0	docker-3	Running	Running about a minute ago
fu5t7bs390lp		_ rolltomcat.2		tomcat:8.0	docker-3	Shutdown	Shutdown about a minute ago
loxt4sgyfx6p		rolltomcat.3		tomcat:9.0	docker-2	Running	Running 57 seconds ago
sr7zx46ggjqp		_ rolltomcat.3		tomcat:8.0	docker-1	Shutdown	Shutdown 59 seconds ago
e9kemszffd0k		rolltomcat.4		tomcat:9.0	docker-2	Running	Running about a minute ago
8fdu2lw0dtcl		_ rolltomcat.4		tomcat:8.0	docker-2	Shutdown	Shutdown about a minute ago
0vvsxumh0d8i		rolltomcat.5		tomcat:9.0	docker-3	Running	Running about a minute ago
c58agnnl5qij		_ rolltomcat.5		tomcat:8.0	docker-3	Shutdown	Shutdown about a minute ago
3s5vrxbuhs9		rolltomcat.6		tomcat:9.0	docker-1	Running	Running about a minute ago
z5zknfzsmkty		_ rolltomcat.6		tomcat:8.0	docker-1	Shutdown	Shutdown about a minute ago
bhhj3iw8ehcd		rolltomcat.7		tomcat:9.0	docker-2	Running	Running about a minute ago
i68fsmdqwgk9		_ rolltomcat.7		tomcat:8.0	docker-2	Shutdown	Shutdown about a minute ago

Rollback

1. We will demonstrate rollback using the rollback command

```
$ docker service rollback <serviceName>
```

```
root@docker-1:~# docker service rollback rolltomcat
rolltomcat
rollback: manually requested rollback
overall progress: rolling back update: 2 out of 7 tasks
1/7: running  [>]
2/7:
3/7:
4/7: starting  [=====>]
5/7:
6/7:
7/7: running  [>]
```