

Module-4: Orchestration in Docker

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DEMO-3: Deploy a Service in Swarm

Note: All commands are executed as root.

1. Simply deploy a service using the service create command. Deploying a tomcat service here

```
$ docker service create --name mysvc --replicas 4 -p 8006:8080 tomcat
```

```
root@docker-1:~# docker service create --name tomservice --replicas 3 -p 8006:8080 tomcat
q35e5yfp487qakm5rhoatwgg1
overall progress: 0 out of 3 tasks
1/3: preparing [=====>]
2/3: preparing [=====>]
3/3: preparing [=====>]
```

```
root@docker-1:~# docker service create --name tomservice --replicas 3 -p 8006:8080 tomcat
q35e5yfp487qakm5rhoatwgg1
overall progress: 3 out of 3 tasks
1/3: running [=====>]
2/3: running [=====>]
3/3: running [=====>]
verify: Service converged
```

2. To list the service deployed use:

```
$ docker service ls
```

```
root@docker-1:~# docker service ls
```

ID	NAME	MODE	REPLICAS	IMAGE	PORTS
q35e5yfp487q	tomservice	replicated	3/3	tomcat:latest	*:8006->8080/tcp

3. Check the tasks deployed by the service using the ps command

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

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

ID	NAME	IMAGE	NODE	DESIRED STATE	CURRENT STATE	ERR
9dadls5670jk	tomservice.1	tomcat:latest	docker-3	Running	Running 9 minutes ago	
o31kikov9z0m	tomservice.2	tomcat:latest	docker-1	Running	Running 9 minutes ago	
710bt0ydg6hh	tomservice.3	tomcat:latest	docker-2	Running	Running 8 minutes ago	

4. To inspect service:

```
$ docker service inspect <serviceName>
```

5. To remove the service:

```
$ docker service rm <serviceName>
```