Docker Swarm Steps

**In Manager**

489 docker swarm init --advertise-addr 54.175.180.230 – The result give some code. Paste it in Workers (1 or many) and enter.

490 docker node ls

491 docker node ls

492 docker node ls

493 docker service create -p 8000:80 --name websvc nginx

494 docker service ls

495 docker service ps websvc

496 docker node update --availability drain manager

497 docker service ls

498 docker ps

499 docker service ps websvc

500 history

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505 systemctl restart docker

506 docker node update --availability drain worker1

507 docker service ps websvc

508 docker node update --availability active worker1

509 docker node ls

510 docker node update --availability active manager

511 docker node ls

512 clear

513 ~/.docker/config.json

514 cd .docker

515 ls

516 cd .

517 cd ~/.docker

518 ls

519 vi config.json

520 vi config.json

521 vi config.json

522 docker service scale websvc=10

523 docker service ls

524 docker service ps websvc

525 docker ps

526 clear

527 docker node update --availability drain worker2

528 docker service ps websvc

529 clear

530 history

**Below 2 are extra nodes created.**

[root@manager /]# **docker network ls**

NETWORK ID NAME DRIVER SCOPE

2b9ae77716ad bridge bridge local

1dcd9fb46fe4 **docker\_gwbridge** bridge local

b2e4757971b8 host host local

qtxpqnvmz0tj **ingress** overlay swarm

c277385b5e45 none null local

Overlay creates distributed network among the docker hosts. Advantage: Containers in hosts can interact with each other because of Overlay network and so they interact to ingress in overlay.

How overlay sits on these hosts? Docker\_Gwbridge allows the overlay to sit on hosts and connection to overlay.

Docker inspect anycontainername

See ingress will be there.

536 docker service rm websvc

537 docker service ls

538 docker network create -d overlay myoverlay1

539 docker network ls

540 docker service create --name web1 --network myoverlay1 -p 8000:80 nginx

541 docker serviceps web1

542 docker service ps web1

543 docker network ls

544 docker inspect nhhxdt6nk8ks

545 history

Why we are connecting to overlay1 (random name) – to ensure containers are connecting to each other.

Check with IPs:8000 – you should be able to see NGinX.