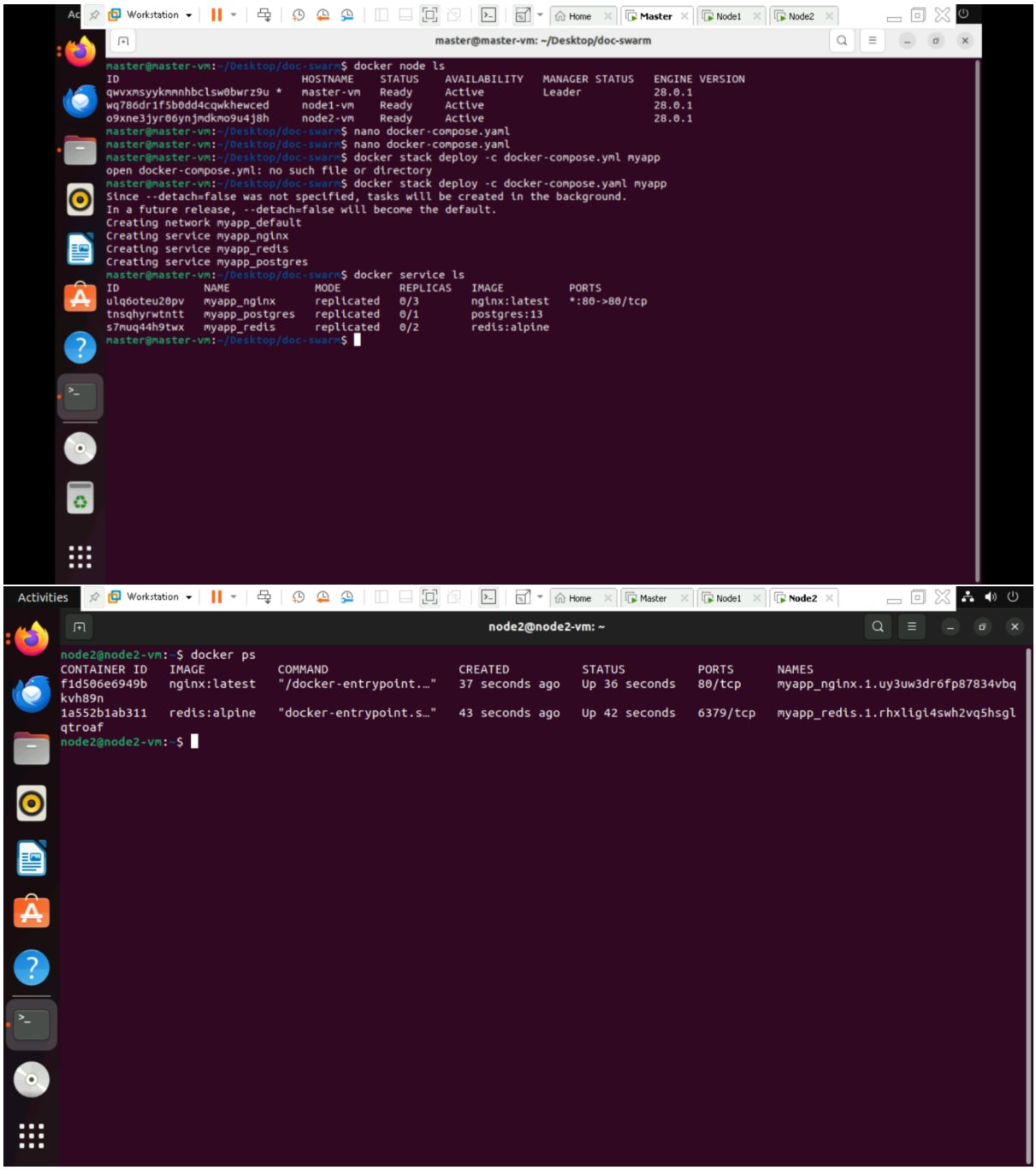
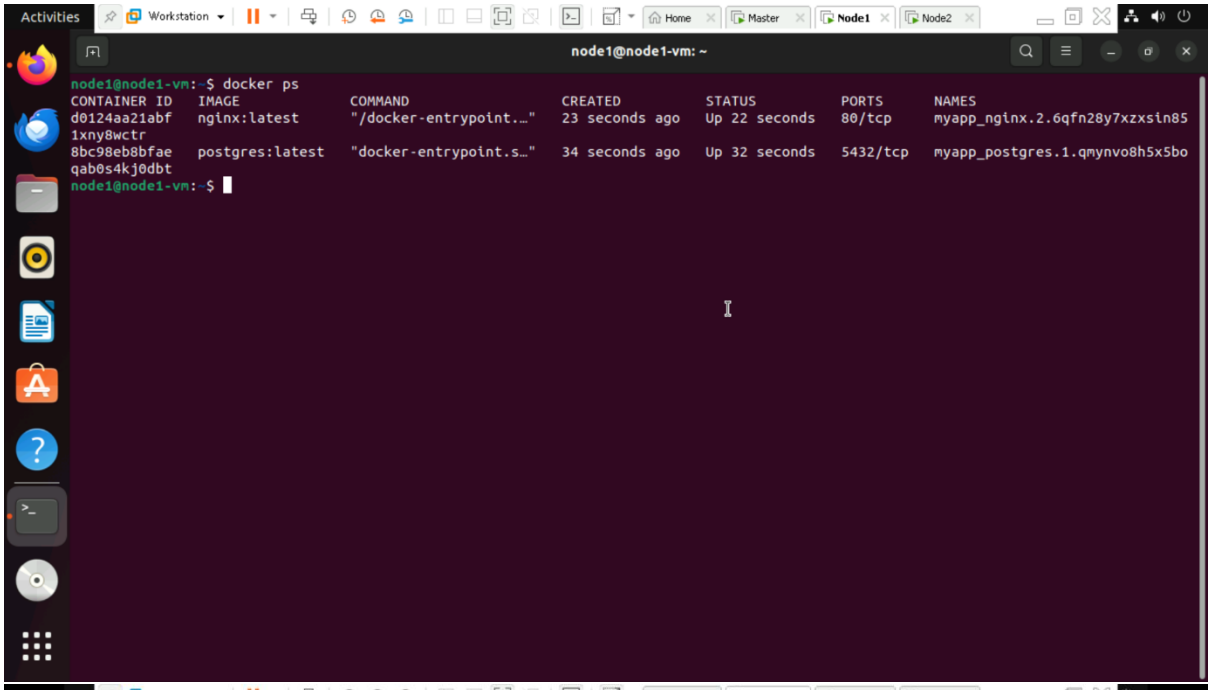
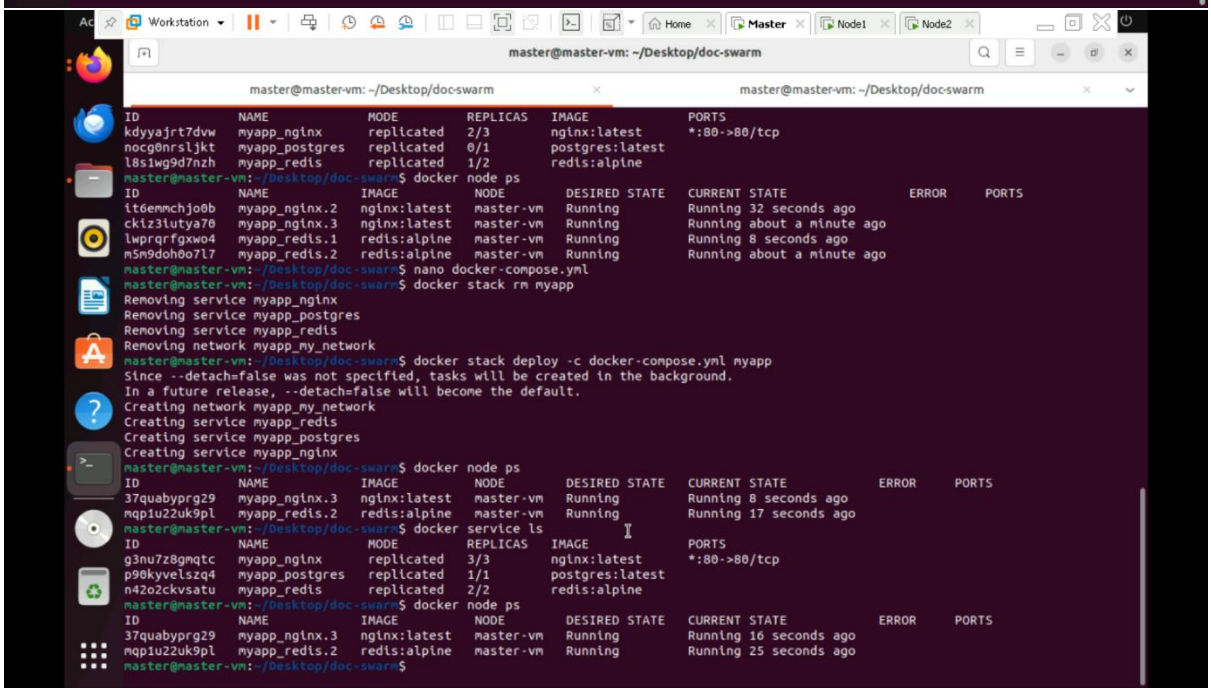
Q. Docker Swarn initialization and deployment to multiple nodes




Activities
Workstation
Home
Master
Node1
Node2
node1@node1-vm: ~
node1@node1-vm:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d0124aa21abf nginx:latest "/docker-entrypoint.…" 23 seconds ago Up 22 seconds 80/tcp myapp_nginx.2.6qfn28y7xzxsin851xny8wctr
8bc98eb8bfae postgres:latest "docker-entrypoint.s…" 34 seconds ago Up 32 seconds 5432/tcp myapp_postgres.1.qmynvo8h5x5boqab0s4kj0dbt
node1@node1-vm:~$


Workstation
Home
Master
Node1
Node2
master@master-vm: ~/Desktop/doc-swarm
master@master-vm: ~/Desktop/doc-swarm
master@master-vm: ~/Desktop/doc-swarm
ID NAME MODE REPLICAS IMAGE PORTS
kdyyajrt7dvw myapp_nginx replicated 2/3 nginx:latest *:80->80/tcp
nocg0nrsljkt myapp_postgres replicated 0/1 postgres:latest
l8s1wg9d7nzh myapp_redis replicated 1/2 redis:alpine
master@master-vm:~/Desktop/doc-swarm$ docker node ps
ID NAME IMAGE NODE DESIRED STATE CURRENT STATE ERROR PORTS
it6emmchjo0b myapp_nginx.2 nginx:latest master-vm Running Running 32 seconds ago
ckiz3iutya70 myapp_nginx.3 nginx:latest master-vm Running Running about a minute ago
lwprqrfgxwo4 myapp_redis.1 redis:alpine master-vm Running Running 8 seconds ago
m5m9doh0o7l7 myapp_redis.2 redis:alpine master-vm Running Running about a minute ago
master@master-vm:~/Desktop/doc-swarm$ nano docker-compose.yml
master@master-vm:~/Desktop/doc-swarm$ docker stack rm myapp
Removing service myapp_nginx
Removing service myapp_postgres
Removing service myapp_redis
Removing network myapp_my_network
master@master-vm:~/Desktop/doc-swarm$ docker stack deploy -c docker-compose.yml myapp
Since --detach=false was not specified, tasks will be created in the background.
In a future release, --detach=false will become the default.
Creating network myapp_my_network
Creating service myapp_redis
Creating service myapp_postgres
Creating service myapp_nginx
master@master-vm:~/Desktop/doc-swarm$ docker node ps
ID NAME IMAGE NODE DESIRED STATE CURRENT STATE ERROR PORTS
37quabyprg29 myapp_nginx.3 nginx:latest master-vm Running Running 8 seconds ago
mqp1u22uk9pl myapp_redis.2 redis:alpine master-vm Running Running 17 seconds ago
master@master-vm:~/Desktop/doc-swarm$ docker service ls
ID NAME MODE REPLICAS IMAGE PORTS
g3nu7z8gmqtc myapp_nginx replicated 3/3 nginx:latest *:80->80/tcp
p90kyvelszq4 myapp_postgres replicated 1/1 postgres:latest
n42o2ckvsatu myapp_redis replicated 2/2 redis:alpine
master@master-vm:~/Desktop/doc-swarm$ docker node ps
ID NAME IMAGE NODE DESIRED STATE CURRENT STATE ERROR PORTS
37quabyprg29 myapp_nginx.3 nginx:latest master-vm Running Running 16 seconds ago
mqp1u22uk9pl myapp_redis.2 redis:alpine master-vm Running Running 25 seconds ago
master@master-vm:~/Desktop/doc-swarm$