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Red Hat Enterprise Linux 9 64-bit - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
cloudera-quickstart-vm
Red Hat Enterprise Linux
Worker1
worker2
Activities Terminal
Dec 1 10:37
root@localhost:/folder1
[root@localhost ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:0c:29:c0:77:4d brd ff:ff:ff:ff:ff:ff
    altname emp350
    inet 192.168.144.144/24 brd 192.168.144.255 scope global dynamic noprefixroute ens160
        valid_lft 1657sec preferred_lft 1657sec
    inet6 fe80::20c:29ff:fe07:774d/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: br-5f0ba7bba712: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
    link/ether 02:42:b6:2b:6a:f7 brd ff:ff:ff:ff:ff:ff
4: br-67da8accbe2: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
    link/ether 02:42:4f:16:40:32 brd ff:ff:ff:ff:ff:ff
5: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
    link/ether 02:42:74:ff:18:9e brd ff:ff:ff:ff:ff:ff
[root@localhost ~]# docker swarm init --advertise-addr 192.168.144.144
Swarm initialized: current node (bvffadw6jwc28czu1oa02rlu) is now a manager.

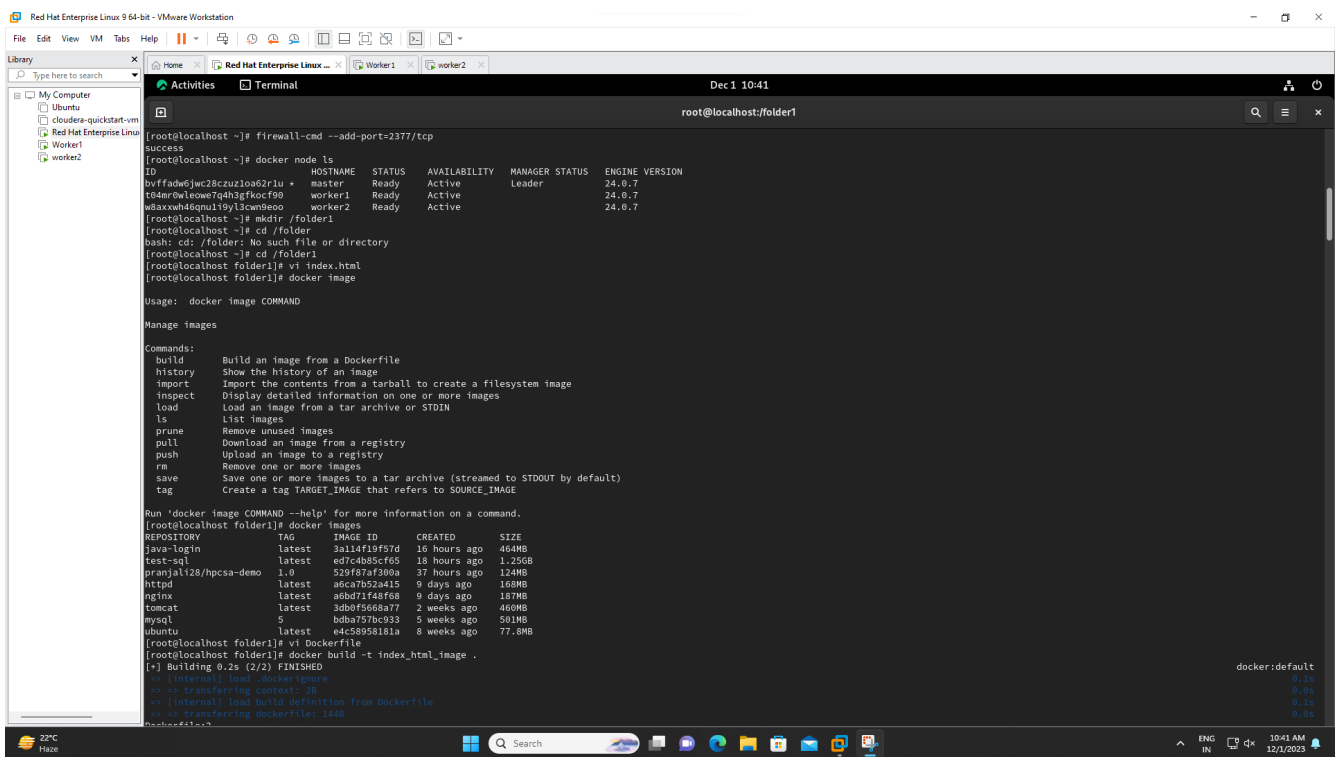
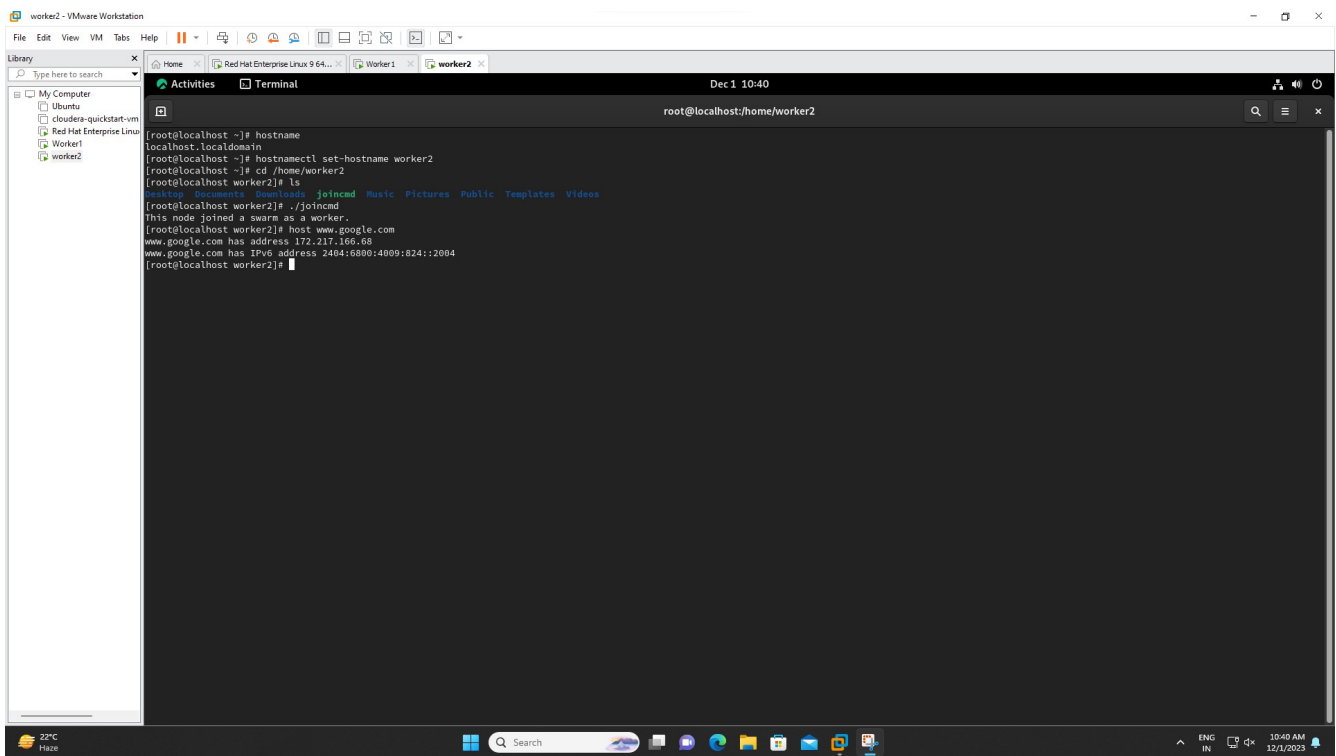
To add a worker to this swarm, run the following command:

    docker swarm join --token SWMTKN-1-306c1dbjlpdrnmj9q8tsfwq4k8q4nteflubw86gzufipgivy-aek94tnn6ph9kr1fy7diz7krz 192.168.144.144:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.

[root@localhost ~]# vi joindcd
[root@localhost ~]# docker node ls
ID                                HOSTNAME    STATUS    AVAILABILITY    MANAGER STATUS    ENGINE VERSION
bvffadw6jwc28czu1oa02rlu *      master     Ready     Active           Leader             24.0.7
[root@localhost ~]# chmod +x joindcd
[root@localhost ~]# scp joindcd worker1@192.168.144.146:/home/worker1
The authenticity of host '192.168.144.146 (192.168.144.146)' can't be established.
ED25519 key fingerprint is SHA256:5GatyKixyl8+ST7KQJmtmQif48KMMYwUWll/sv084.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.144.146' (ED25519) to the list of known hosts.
worker1@192.168.144.146's password:
joindcd
[root@localhost ~]# scp joindcd worker2@192.168.144.145:/home/worker2
The authenticity of host '192.168.144.145 (192.168.144.145)' can't be established.
ED25519 key fingerprint is SHA256:0g-sm/efaq4f17v/5FX2TgH5ZC2LLTmtAF0xwZSMEA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.144.145' (ED25519) to the list of known hosts.
worker2@192.168.144.145's password:
joindcd
Progress: [ 0%] 1.8 MB/s | 0 B of 1.8 MB | 0:00
Progress: [ 100%] 1.8 MB/s | 1.8 MB of 1.8 MB | 0:00
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Worker1 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
cloudera-quickstart-vm
Red Hat Enterprise Linux
Worker1
worker2
Activities Terminal
Dec 1 10:40
root@worker1:/home/worker1
[root@worker1 ~]# hostname
worker1
[root@worker1 ~]# cd /home/worker1
[root@worker1 worker1]# ls
Desktop Documents Downloads joindcd Music Pictures Public Templates Videos
[root@worker1 worker1]# ./joindcd
This node joined a swarm as a worker.
[root@worker1 worker1]# host www.google.com
www.google.com has address 172.217.166.68
www.google.com has IPv6 address 2404:6800:4009:824::2004
[root@worker1 worker1]# docker images
REPOSITORY    TAG    IMAGE ID    CREATED    SIZE
[root@worker1 worker1]# docker pull pranjal128
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Red Hat Enterprise Linux 9 64-bit - VMware Workstation

File Edit View VM Tabs Help

Library

Home Red Hat Enterprise Linux Worker1 worker2

Activities Terminal

Dec 1 10:44

root@localhost:/folder1

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[root@localhost folder1]# curl 192.168.144.144:5500
curl: (7) Failed to connect to 192.168.144.144 port 5500: No route to host
[root@localhost folder1]# docker service rm myweb
myweb
[root@localhost folder1]# docker service create --name myweb -p 5500:80 -d pranjali28/index_html_image:1.0
fe1ndrvpp2df3hyvvtk2h1l
[root@localhost folder1]# docker service ps myweb
ID            NAME      IMAGE                                NODE      DESIRED STATE   CURRENT STATE     ERROR      PORTS
0Kted09z3xv  myweb.1   pranjali28/index_html_image:1.0     master    Running          Running 5 seconds ago
[root@localhost folder1]# curl 192.168.144.144:5500
My Name is Pranjali..
[root@localhost folder1]# docker service scale myweb=10
myweb scaled to 10
overall progress: 10 out of 10 tasks
1/10: running [=====]
2/10: running [=====]
3/10: running [=====]
4/10: running [=====]
5/10: running [=====]
6/10: running [=====]
7/10: running [=====]
8/10: running [=====]
9/10: running [=====]
10/10: running [=====]
verify: Service converged
[root@localhost folder1]# docker service ps myweb
ID            NAME      IMAGE                                NODE      DESIRED STATE   CURRENT STATE     ERROR      PORTS
0Kted09z3xv  myweb.1   pranjali28/index_html_image:1.0     master    Running          Running about a minute ago
v8au2f77m0l  myweb.2   pranjali28/index_html_image:1.0     worker2    Running          Running 29 seconds ago
tkvjgtfaw0x  myweb.3   pranjali28/index_html_image:1.0     worker2    Running          Running 29 seconds ago
aqp6ia0vn457 myweb.4   pranjali28/index_html_image:1.0     worker1    Running          Running 28 seconds ago
w8p93jpm8cf  myweb.5   pranjali28/index_html_image:1.0     worker1    Running          Running 28 seconds ago
y8uq376cc25z myweb.6   pranjali28/index_html_image:1.0     worker2    Running          Running 29 seconds ago
95f3f6zy1wwe myweb.7   pranjali28/index_html_image:1.0     master    Running          Running 41 seconds ago
144631z4qtvt myweb.8   pranjali28/index_html_image:1.0     worker1    Running          Running 28 seconds ago
x1g1l0aggf4l myweb.9   pranjali28/index_html_image:1.0     worker1    Running          Running 28 seconds ago
05x19ck5fp85 myweb.10  pranjali28/index_html_image:1.0     master    Running          Running 41 seconds ago
[root@localhost folder1]# docker service scale myweb=3
myweb scaled to 3
overall progress: 3 out of 3 tasks
1/3: running [=====]
2/3: running [=====]
3/3: running [=====]
verify: Service converged
[root@localhost folder1]# docker service ps myweb
ID            NAME      IMAGE                                NODE      DESIRED STATE   CURRENT STATE     ERROR      PORTS
0Kted09z3xv  myweb.1   pranjali28/index_html_image:1.0     master    Running          Running 2 minutes ago
v8au2f77m0l  myweb.2   pranjali28/index_html_image:1.0     worker2    Running          Running about a minute ago
aqp6ia0vn457 myweb.4   pranjali28/index_html_image:1.0     worker1    Running          Running about a minute ago
[root@localhost folder1]#
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