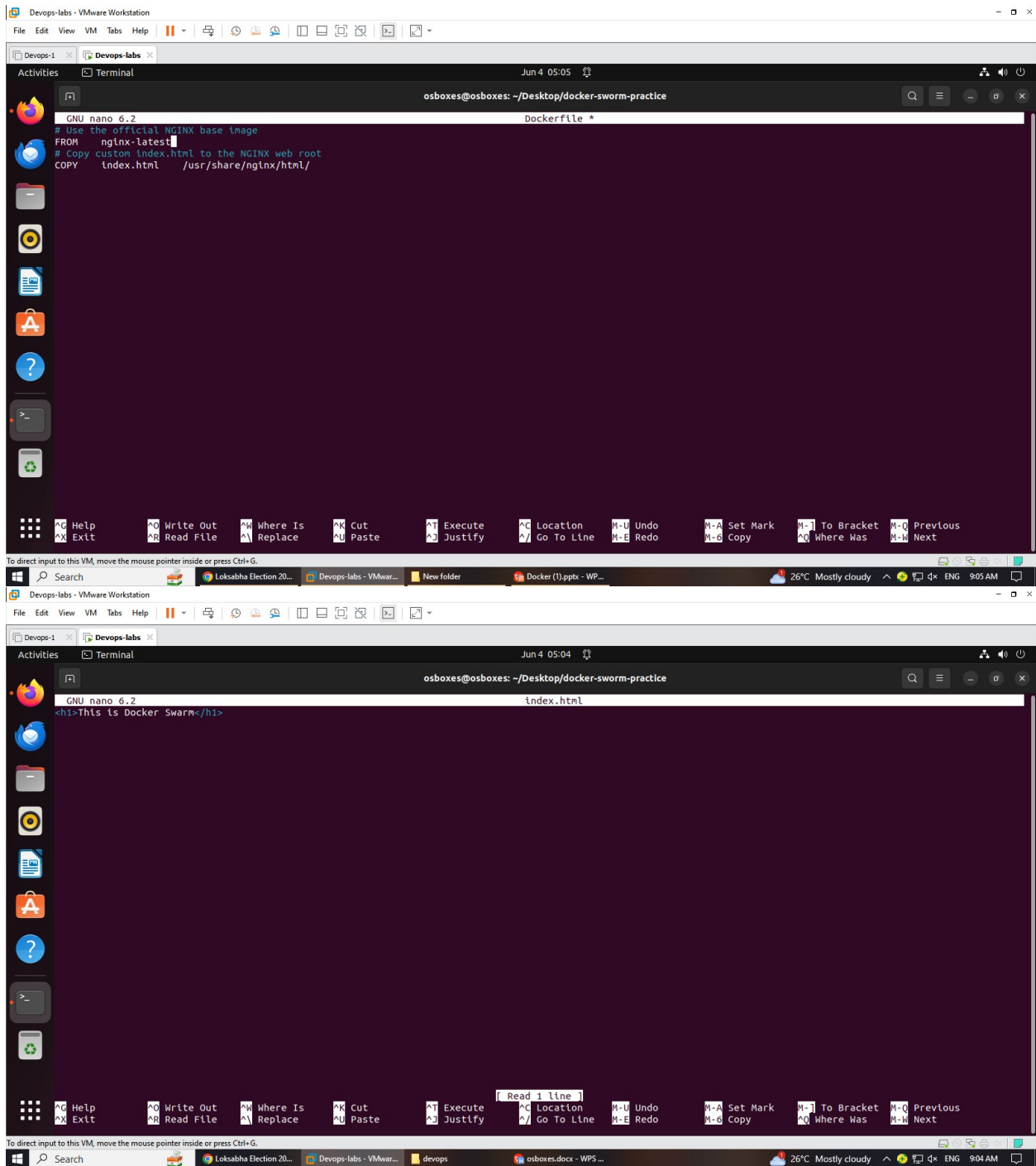


Docker-swarm



The image shows two screenshots of a Docker Swarm setup in a VM. The top screenshot shows the Dockerfile for an nginx-latest image. The bottom screenshot shows the command to create a service named 'hi'.

Top Screenshot: Dockerfile

```
osboxes@osboxes: ~/Desktop/docker-swarm-practice
Dockerfile *
GNU nano 6.2
# Use the official NGINX base Image
FROM nginx-latest
# Copy custom index.html to the NGINX web root
COPY index.html /usr/share/nginx/html/
```

Bottom Screenshot: Service Creation

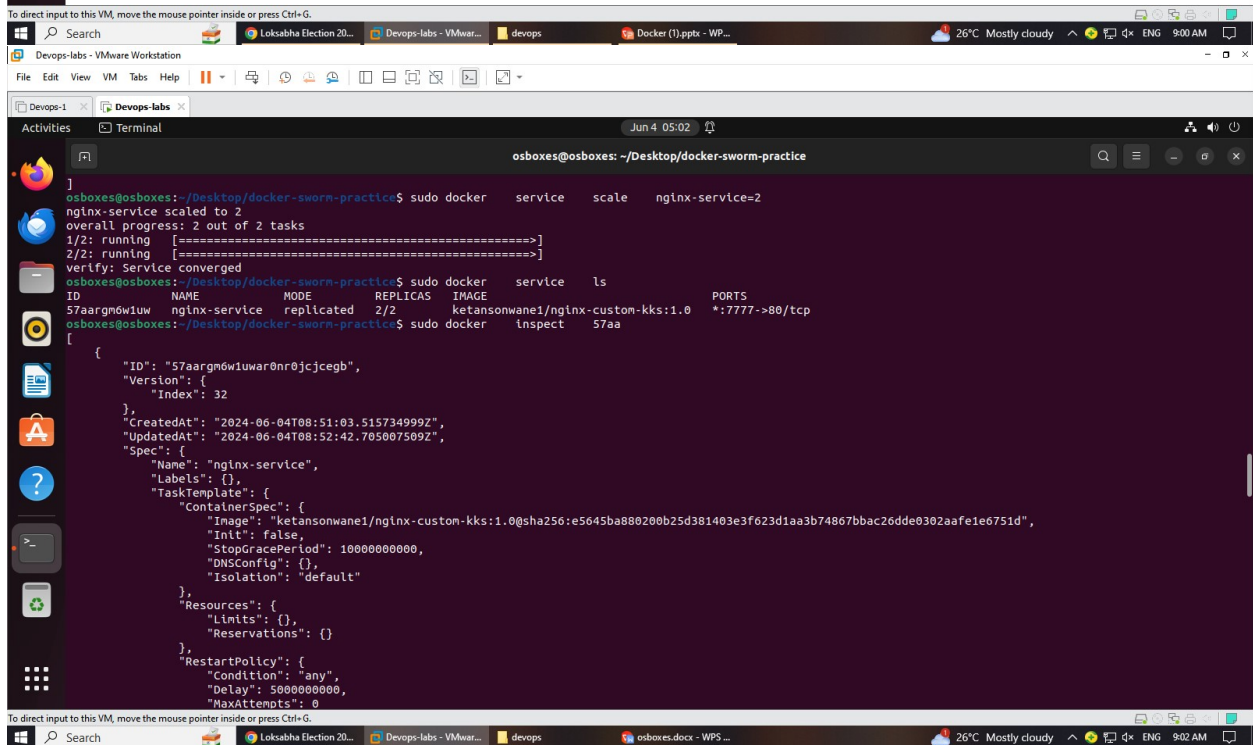
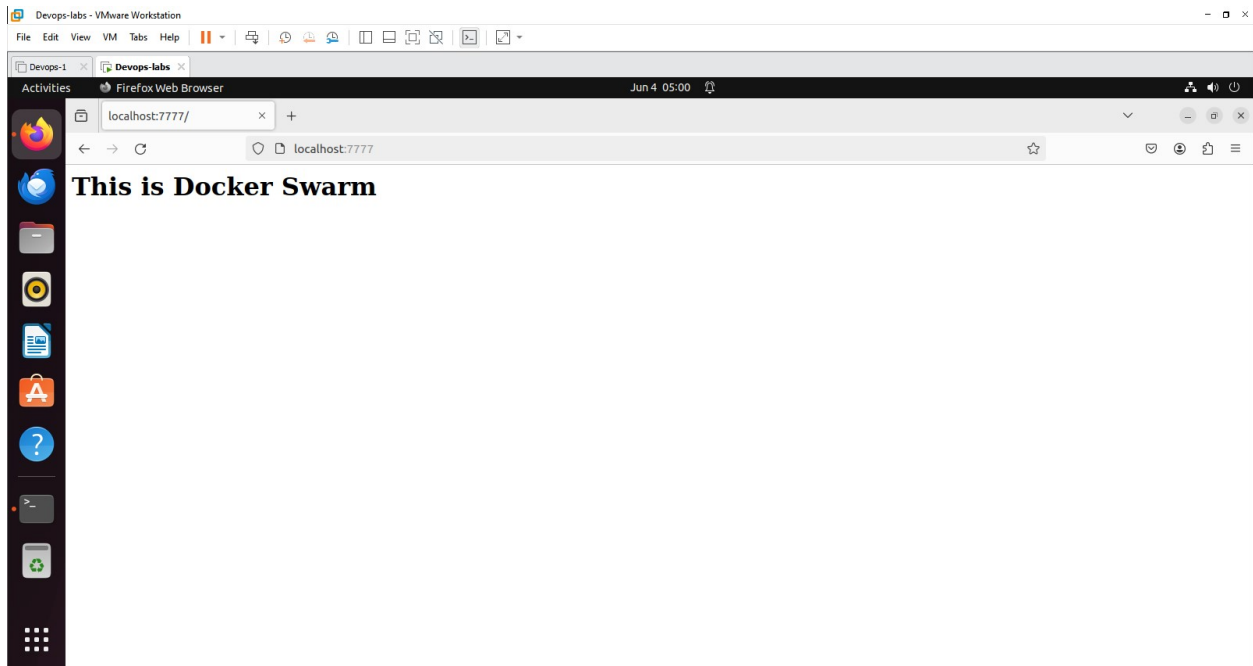
```
osboxes@osboxes: ~/Desktop/docker-swarm-practice
index.html
>hi>This is Docker Swarm>/hi>
```

```
Devops-labs - VMware Workstation
File Edit View VM Tabs Help
Devops-labs x Devops-labs x
Activities Terminal Jun 4 05:02
osboxes@osboxes: ~/Desktop/docker-sworn-practice
osboxes@osboxes:~/Desktop/docker-sworn-practice$ nano Dockerfile
osboxes@osboxes:~/Desktop/docker-sworn-practice$ nano index.html
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker build -t ketansonwane1/nginx-custom-kks:1.0 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM nginx:latest
--> e784f4560448
Step 2/2 : COPY index.html /usr/share/nginx/html/
--> Using cache
--> 81a2c16d9f68
Successfully built 81a2c16d9f68
Successfully tagged ketansonwane1/nginx-custom-kks:1.0
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker push ketansonwane1/nginx-custom-kks:1.0
The push refers to repository [docker.io/ketansonwane1/nginx-custom-kks]
86848413c46a: Pushed
14773070094d: Pushed
7d2fd59c368c: Pushed
56f8f6eadeed: Pushed
9f4d73e035f1: Pushed
747b290aeba8: Pushed
fc1cf9ca5139: Pushed
5d4427064ecc: Pushed
1.0: digest: sha256:e5645ba880200b25d381403e3f623d1aa3b74867bbac26dde0302aaf1e6751d size: 1985
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker swarm init

Error response from daemon: could not choose an IP address to advertise since this system has multiple addresses on different interfaces (192.168.25.171 on ens33 and 192.168.50.136 on ens37) - specify one with --advertise-addr
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker swarm init
Error response from daemon: could not choose an IP address to advertise since this system has multiple addresses on different interfaces (192.168.25.171 on ens33 and 192.168.50.136 on ens37) - specify one with --advertise-addr
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker swarm init
Error response from daemon: could not choose an IP address to advertise since this system has multiple addresses on different interfaces (192.168.25.171 on ens33 and 192.168.50.136 on ens37) - specify one with --advertise-addr
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker swarm init
Error response from daemon: could not choose an IP address to advertise since this system has multiple addresses on different interfaces (192.168.25.171 on ens33 and 192.168.50.136 on ens37) - specify one with --advertise-addr
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker swarm init
Error response from daemon: could not choose an IP address to advertise since this system has multiple addresses on different interfaces (192.168.25.171 on ens33 and 192.168.50.136 on ens37) - specify one with --advertise-addr
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker service create --replicas 1 --name nginx-service -p 7777:80 ketansonwane1/nginx-custom-kks:1.0
overall progress: 1 out of 1 tasks
1/1: running [=====]
verify: Service converged
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker service scale nginx-service=10
nginx-service 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
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker service ls
ID NAME MODE REPLICAS IMAGE PORTS
57aargm6w1uw nginx-service replicated 10/10 ketansonwane1/nginx-custom-kks:1.0 *:7777->80/tcp
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker inspect 57aa
[
  {
    "ID": "57aargm6w1uw@nr0jcjcegb",
    "Version": {
      "Index": 19
    },
    "CreatedAt": "2024-06-04T08:51:03.515734999Z",
    "UpdatedAt": "2024-06-04T08:51:27.375089735Z",
    "Spec": {
      "Name": "nginx-service",
      "Labels": {},
      "TaskTemplate": {
        "ContainerSpec": {
          "Image": "ketansonwane1/nginx-custom-kks:1.0@sha256:e5645ba880200b25d381403e3f623d1aa3b74867bbac26dde0302aaf1e6751d",

```



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Devops-1 Devops-labs

Activities Terminal Jun 4 05:03 osboxes@osboxes: ~/Desktop/docker-swarm-practice

```
GNU nano 6.2
# Use the official NGINX base image
FROM ketansowane1/nginx-custom-kks:1.0
# Copy custom index.html to the NGINX web root
COPY index.html /usr/share/nginx/html/
```

Read 4 lines

Help Write Out Where Is Cut Execute Location M-U Undo M-A Set Mark M-T To Bracket M-Q Previous
Exit Read File Replace Paste Justify Go To Line M-E Redo M-G Copy M-W Where Was M-N Next

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

Devops-labs - VMware Workstation

File Edit View VM Tabs Help

Devops-1 Devops-labs

Activities Terminal Jun 4 05:04 osboxes@osboxes: ~/Desktop/docker-swarm-practice

```
GNU nano 6.2
<h1>This is updated Docker Swarm</h1>
```

index.html *

Help Write Out Where Is Cut Execute Location M-U Undo M-A Set Mark M-T To Bracket M-Q Previous
Exit Read File Replace Paste Justify Go To Line M-E Redo M-G Copy M-W Where Was M-N Next

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

```
Devops-labs - VMware Workstation
File Edit View VM Tabs Help
Devops-1 Devops-labs
Activities Terminal Jun 4 05:02
osboxes@osboxes: ~/Desktop/docker-sworn-practice
osboxes@osboxes:~/Desktop/docker-sworn-practice$ ls
Dockerfile index.html
osboxes@osboxes:~/Desktop/docker-sworn-practice$ nano Dockerfile
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker build -t ketansonwane1/nginx-custom-kks:1.1 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM ketansonwane1/nginx-custom-kks
manifest for ketansonwane1/nginx-custom-kks:latest not found: manifest unknown: manifest unknown
osboxes@osboxes:~/Desktop/docker-sworn-practice$ nano Dockerfile
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker build -t ketansonwane1/nginx-custom-kks:1.1 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM ketansonwane1/nginx-custom-kks:1.0
--> 81a2c16d9f68
Step 2/2 : COPY index.html /usr/share/nginx/html/
--> 435e7b3f7e39
Successfully built 435e7b3f7e39
Successfully tagged ketansonwane1/nginx-custom-kks:1.1
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker push ketansonwane1/nginx-custom:1.1
The push refers to repository [docker.io/ketansonwane1/nginx-custom]
An image does not exist locally with the tag: ketansonwane1/nginx-custom
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker push ketansonwane1/nginx-custom-kks:1.1
The push refers to repository [docker.io/ketansonwane1/nginx-custom-kks]
75410c5adae9: Pushed
86848413c46a: Layer already exists
14773070094d: Layer already exists
7d2fd59c368c: Layer already exists
56f8fe6aedcd: Layer already exists
9fd473e635f1: Layer already exists
747b290aeba8: Layer already exists
fc1cf9ca5139: Layer already exists
5d44270d4ecc: Layer already exists
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

```
Devops-labs - VMware Workstation
File Edit View VM Tabs Help
Devops-1 Devops-labs
Activities Terminal Jun 4 05:03
osboxes@osboxes: ~/Desktop/docker-sworn-practice
Step 1/2 : FROM ketansonwane1/nginx-custom-kks
manifest for ketansonwane1/nginx-custom-kks:latest not found: manifest unknown: manifest unknown
osboxes@osboxes:~/Desktop/docker-sworn-practice$ nano Dockerfile
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker build -t ketansonwane1/nginx-custom-kks:1.1 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM ketansonwane1/nginx-custom-kks:1.0
--> 81a2c16d9f68
Step 2/2 : COPY index.html /usr/share/nginx/html/
--> 435e7b3f7e39
Successfully built 435e7b3f7e39
Successfully tagged ketansonwane1/nginx-custom-kks:1.1
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker push ketansonwane1/nginx-custom:1.1
The push refers to repository [docker.io/ketansonwane1/nginx-custom]
An image does not exist locally with the tag: ketansonwane1/nginx-custom
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker push ketansonwane1/nginx-custom-kks:1.1
The push refers to repository [docker.io/ketansonwane1/nginx-custom-kks]
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86848413c46a: Layer already exists
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7d2fd59c368c: Layer already exists
56f8fe6aedcd: Layer already exists
9fd473e635f1: Layer already exists
747b290aeba8: Layer already exists
fc1cf9ca5139: Layer already exists
5d44270d4ecc: Layer already exists
1.1: digest: sha256:741d64e7c0ba356bbaabc80d22ce49266286b42058d550429af9607bf80d6cb size: 2192
osboxes@osboxes:~/Desktop/docker-sworn-practice$ sudo docker service update --image ketansonwane1/nginx-custom-kks:1.1 nginx-service
nginx-service
overall progress: 2 out of 2 tasks
1/2: running [=====]
2/2: running [=====]
verify: Service converged
osboxes@osboxes:~/Desktop/docker-sworn-practice$
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

