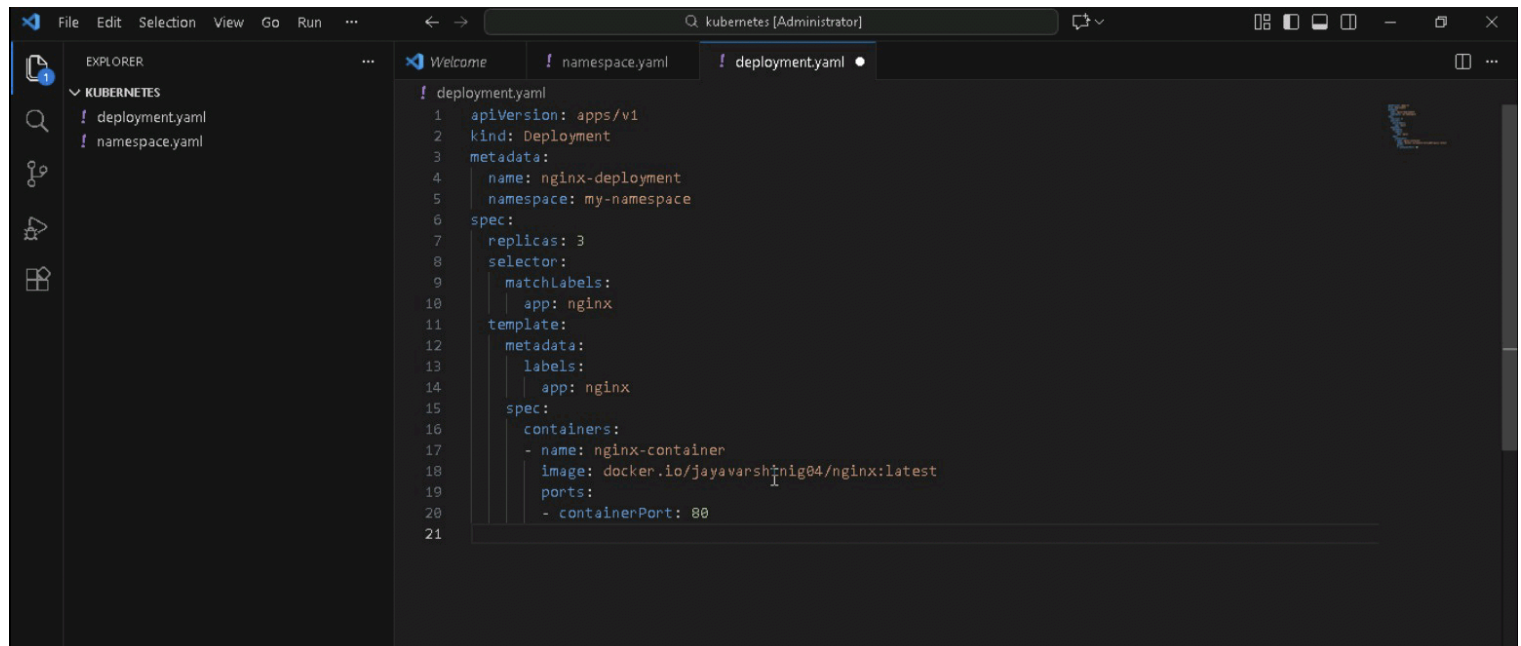


```
Deleted: sha256:c35e29c9450151419d9448b0fd75374fec4fff364a27f176fb458d472dfc9e54
PS C:\Users\Administrator> docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
119d43eec815: Pull complete
d989100b8a84: Pull complete
700146c8ad64: Pull complete
eaf8753feae0: Pull complete
10b68cfefee1: Pull complete
500799c30424: Pull complete
57f0dd1befe2: Pull complete
785250c9bf9e: Download complete
e2dd2dbe6277: Download complete
Digest: sha256:06eb0c817047c1d0f247f700431a4cddfb26a7622903dcb6fbe264de2c588f23
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
PS C:\Users\Administrator> docker run -P -d nginx
c27dfdf34b0c69432f23eb0d8ca0e976081de250381e657793d09c624cd2a9e7
```

```
PS C:\Users\Administrator\Desktop\kubernetes> kubectl get nodes
NAME                                STATUS    ROLES    AGE   VERSION
desktop-control-plane              Ready    control-plane   14m   v1.31.1
desktop-worker                     Ready    <none>         14m   v1.31.1
desktop-worker2                    Ready    <none>         14m   v1.31.1
PS C:\Users\Administrator\Desktop\kubernetes> kubectl get namespace
NAME                STATUS    AGE
default             Active    15m
kube-node-lease     Active    15m
kube-public         Active    15m
kube-system         Active    15m
local-path-storage  Active    14m
PS C:\Users\Administrator\Desktop\kubernetes> kubectl create ns wipro
namespace/wipro created
PS C:\Users\Administrator\Desktop\kubernetes> kubectl get ns
NAME                STATUS    AGE
default             Active    15m
kube-node-lease     Active    15m
kube-public         Active    15m
kube-system         Active    15m
local-path-storage  Active    15m
wipro               Active    13s
PS C:\Users\Administrator\Desktop\kubernetes>
```

```
PS C:\Users\Administrator> docker run -it ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
20043066d3d5: Pull complete
06808451f0d6: Download complete
Digest: sha256:c35e29c9450151419d9448b0fd75374fec4fff364a27f176fb458d472dfc9e54
Status: Downloaded newer image for ubuntu:latest
root@f532e455a389:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@f532e455a389:/# ls -l
total 48
lrwxrwxrwx 1 root root 7 Apr 22 2024 bin -> usr/bin
drwxr-xr-x 2 root root 4096 Apr 22 2024 boot
drwxr-xr-x 5 root root 360 Jan 13 07:23 dev
drwxr-xr-x 1 root root 4096 Jan 13 07:23 etc
drwxr-xr-x 3 root root 4096 Oct 13 14:09 home
lrwxrwxrwx 1 root root 7 Apr 22 2024 lib -> usr/lib
lrwxrwxrwx 1 root root 9 Apr 22 2024 lib64 -> usr/lib64
drwxr-xr-x 2 root root 4096 Oct 13 14:02 media
drwxr-xr-x 2 root root 4096 Oct 13 14:02 mnt
drwxr-xr-x 2 root root 4096 Oct 13 14:02 opt
dr-xr-xr-x 231 root root 0 Jan 13 07:23 proc
drwx----- 2 root root 4096 Oct 13 14:09 root
drwxr-xr-x 4 root root 4096 Oct 13 14:09 run
lrwxrwxrwx 1 root root 8 Apr 22 2024 sbin -> usr/sbin
drwxr-xr-x 2 root root 4096 Oct 13 14:02 srv
dr-xr-xr-x 13 root root 0 Jan 13 07:23 sys
drwxrwxrwt 2 root root 4096 Oct 13 14:09 tmp
drwxr-xr-x 12 root root 4096 Oct 13 14:02 usr
drwxr-xr-x 11 root root 4096 Oct 13 14:09 var
```

Activate Windows
Go to Settings to activate Windows.



```
hello-world:latest    d4aaab6242e0    25.9kB    9.52kB    0
● PS C:\Users\Administrator> docker container rm 949a0241e0a1
949a0241e0a1
PS C:\Users\Administrator> docker container ls -all
● CONTAINER ID    IMAGE    COMMAND    CREATED    STATUS    PORTS    NAMES
● PS C:\Users\Administrator> docker image rm hello-world
● Untagged: hello-world:latest
Deleted: sha256:d4aaab6242e0cace87e2ec17a2ed3d779d18fbfd03042ea58f2995626396a274
○ PS C:\Users\Administrator>
```

```
/docker-entrypoint.sh: Launching /docker-entrypoint.sh to start worker processes
/entrypoint.sh: Configuration complete; ready for start up
2026/01/15 09:14:51 [notice] 1#1: using the "epoll" event method
2026/01/15 09:14:51 [notice] 1#1: nginx/1.29.4
2026/01/15 09:14:51 [notice] 1#1: built by gcc 14.2.0 (Debian 14.2.0-19)
2026/01/15 09:14:51 [notice] 1#1: OS: Linux 6.6.87.2-microsoft-standard-WSL2
2026/01/15 09:14:51 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2026/01/15 09:14:51 [notice] 1#1: start worker processes
2026/01/15 09:14:51 [notice] 1#1: start worker process 32
2026/01/15 09:14:51 [notice] 1#1: start worker process 33
2026/01/15 09:14:51 [notice] 1#1: start worker process 34
2026/01/15 09:14:51 [notice] 1#1: start worker process 35
PS C:\Users\Administrator\Desktop\kubernetes> kubectl delete deployment myfirstdeployment -n wipro
deployment.apps "myfirstdeployment" deleted from wipro namespace
PS C:\Users\Administrator\Desktop\kubernetes>
```

```
PS C:\Users\Administrator\Documents\nginx_docker> docker-compose up -d
time="2026-01-15T10:52:10+05:30" level=warning msg="C:\Users\Administrator\Documents\nginx_docker\docker-compose.yaml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 2/3
 ✓ Network nginx_docker_app_network Created 0.3s
 ✓ Container mysql_server Started 3.7s
 - Container nginx_server Starting 3.1s
Error response from daemon: ports are not available: exposing port TCP 0.0.0.0:8080 -> 127.0.0.1:0: listen tcp 0.0.0.0:8080: bind: only one usage of each socket address (protocol/network address/port) is normally permitted.
PS C:\Users\Administrator\Documents\nginx_docker>
```

```

✓ Network nginx_docker_app_network Removed 1.1s
PS C:\Users\Administrator\Documents\nginx_docker> docker-compose up -d
⊗ time="2026-01-15T10:55:05+05:30" level=warning msg="C:\Users\Administrator\Documents\nginx_docker\docker-compose.yaml: the attribute `version` is obsolete,
it will be ignored, please remove it to avoid potential confusion"
[+] Running 2/3
✓ Network nginx_docker_app_network Created 0.3s
✓ Container mysql_server Started 4.3s
- Container nginx_server Starting 3.5s
Error response from daemon: ports are not available: exposing port TCP 0.0.0.0:8080 -> 127.0.0.1:0: listen tcp 0.0.0.0:8080: bind: Only one usage of each socket
address (protocol/network address/port) is normally permitted.
● PS C:\Users\Administrator\Documents\nginx_docker> docker ps

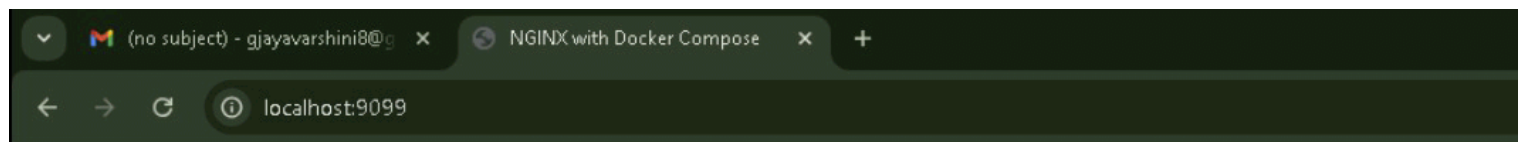
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
a1c1772fb89e	mysql:8.0	"docker-entrypoint.s..."	35 seconds ago	Up 32 seconds	0.0.0.0:9092->80/tcp, [::]:9092->80/tcp	mysql_server
fa845c3730c7	custom-nginx	"/docker-entrypoint..."	58 minutes ago	Up 58 minutes	0.0.0.0:9090->80/tcp, [::]:9090->80/tcp	elastic_hugle
b6c5f912b392	nginx	"/docker-entrypoint..."	42 hours ago	Up 42 hours	0.0.0.0:8085->80/tcp, [::]:8085->80/tcp	nginx-custom
c27dfd34b0c	nginx	"/docker-entrypoint..."	44 hours ago	Up 44 hours	0.0.0.0:32768->80/tcp	xenodochial_babbage

```

○ PS C:\Users\Administrator\Documents\nginx_docker>

```

NGINX is running

MySQL container is also running

```
File Edit Selection View Go ... Search [Administrator]
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Administrator> docker container --help

rm          Remove one or more containers
run         Create and run a new container from an image
start       Start one or more stopped containers
stats       Display a live stream of container(s) resource usage statistics
stop        Stop one or more running containers
top         Display the running processes of a container
unpause     Unpause all processes within one or more containers
update      Update configuration of one or more containers
wait        Block until one or more containers stop, then print their exit codes

Run 'docker container COMMAND --help' for more information on a command.
PS C:\Users\Administrator> docker --help
Usage: docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Common Commands:
run         Create and run a new container from an image
exec        Execute a command in a running container
ps          List containers
build       Build an image from a Dockerfile
bake        Build from a file
pull        Download an image from a registry
push        Upload an image to a registry
images      List images
login        Authenticate to a registry
logout      Log out from a registry
search      Search Docker Hub for images
version     Show the Docker version information
info        Display system-wide information

Management Commands:
ai*         Docker AI Agent - Ask Gordon
builder     Manage builds
```

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