

Unit-1 Docker Practice

Bind Mount with Nginx (Live Sync):

1 Example 1 :

Windows PowerShell

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Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\sr302> mkdir webdata
```

Directory: C:\Users\sr302

Mode	LastWriteTime	Length	Name
d----	2/20/2026 10:09 PM		webdata

```
PS C:\Users\sr302> cd webdata
```

```
PS C:\Users\sr302\webdata> echo "<h1>Welcome from Host</h1>" > index.html
```

```
PS C:\Users\sr302\webdata> dir
```

Directory: C:\Users\sr302\webdata

Mode	LastWriteTime	Length	Name
-a----	2/20/2026 10:11 PM	58	index.html

PS C:\Users\sr302\webdata>cd ..

PS C:\Users\sr302> docker run -it --mount
type=bind,source="C:\Users\sr302\webdata",target=/usr/share/nginx/html -p 8080:80 nginx

/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration

/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/

/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh

10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf

10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf

/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh

/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh

/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh

/docker-entrypoint.sh: Configuration complete; ready for start up

2026/02/20 16:42:09 [notice] 1#1: using the "epoll" event method

2026/02/20 16:42:09 [notice] 1#1: nginx/1.29.4

2026/02/20 16:42:09 [notice] 1#1: built by gcc 14.2.0 (Debian 14.2.0-19)

2026/02/20 16:42:09 [notice] 1#1: OS: Linux 6.6.87.2-microsoft-standard-WSL2

2026/02/20 16:42:09 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576

2026/02/20 16:42:09 [notice] 1#1: start worker processes

2026/02/20 16:42:09 [notice] 1#1: start worker process 30

2026/02/20 16:42:09 [notice] 1#1: start worker process 31

2026/02/20 16:42:09 [notice] 1#1: start worker process 32

2026/02/20 16:42:09 [notice] 1#1: start worker process 33

2026/02/20 16:42:09 [notice] 1#1: start worker process 34

2026/02/20 16:42:09 [notice] 1#1: start worker process 35

2026/02/20 16:42:09 [notice] 1#1: start worker process 36

2026/02/20 16:42:09 [notice] 1#1: start worker process 37

172.17.0.1 - - [20/Feb/2026:16:42:25 +0000] "GET / HTTP/1.1" 200 58 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/145.0.0.0 Safari/537.36 Edg/145.0.0.0" "-"

2026/02/20 16:42:25 [error] 30#30: *1 open() "/usr/share/nginx/html/favicon.ico" failed (2: No such file or directory),
client: 172.17.0.1, server: localhost, request: "GET /favicon.ico HTTP/1.1", host: "localhost:8080", referer:
"http://localhost:8080/"

172.17.0.1 - - [20/Feb/2026:16:42:25 +0000] "GET /favicon.ico HTTP/1.1" 404 555 "http://localhost:8080/"
"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/145.0.0.0
Safari/537.36 Edg/145.0.0.0" "-"

172.17.0.1 - - [20/Feb/2026:16:44:41 +0000] "GET / HTTP/1.1" 200 70 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/145.0.0.0 Safari/537.36 Edg/145.0.0.0" "-"

^C2026/02/20 16:46:23 [notice] 34#34: signal 2 (SIGINT) received, exiting

2026/02/20 16:46:23 [notice] 30#30: signal 2 (SIGINT) received, exiting

2026/02/20 16:46:23 [notice] 36#36: signal 2 (SIGINT) received, exiting

2026/02/20 16:46:23 [notice] 34#34: exiting

2026/02/20 16:46:23 [notice] 30#30: exiting

2026/02/20 16:46:23 [notice] 35#35: signal 2 (SIGINT) received, exiting

2026/02/20 16:46:23 [notice] 36#36: exiting

2026/02/20 16:46:23 [notice] 37#37: signal 2 (SIGINT) received, exiting

2026/02/20 16:46:23 [notice] 32#32: signal 2 (SIGINT) received, exiting

2026/02/20 16:46:23 [notice] 35#35: exiting

2026/02/20 16:46:23 [notice] 32#32: exiting

2026/02/20 16:46:23 [notice] 37#37: exiting

2026/02/20 16:46:23 [notice] 30#30: exit

2026/02/20 16:46:23 [notice] 36#36: exit

2026/02/20 16:46:23 [notice] 37#37: exit

2026/02/20 16:46:23 [notice] 32#32: exit

2026/02/20 16:46:23 [notice] 35#35: exit

2026/02/20 16:46:23 [notice] 34#34: exit

2026/02/20 16:46:23 [notice] 31#31: signal 2 (SIGINT) received, exiting

2026/02/20 16:46:23 [notice] 31#31: exiting

2026/02/20 16:46:23 [notice] 1#1: signal 2 (SIGINT) received, exiting

2026/02/20 16:46:23 [notice] 33#33: signal 2 (SIGINT) received, exiting

2026/02/20 16:46:23 [notice] 31#31: exit

2026/02/20 16:46:23 [notice] 33#33: exiting

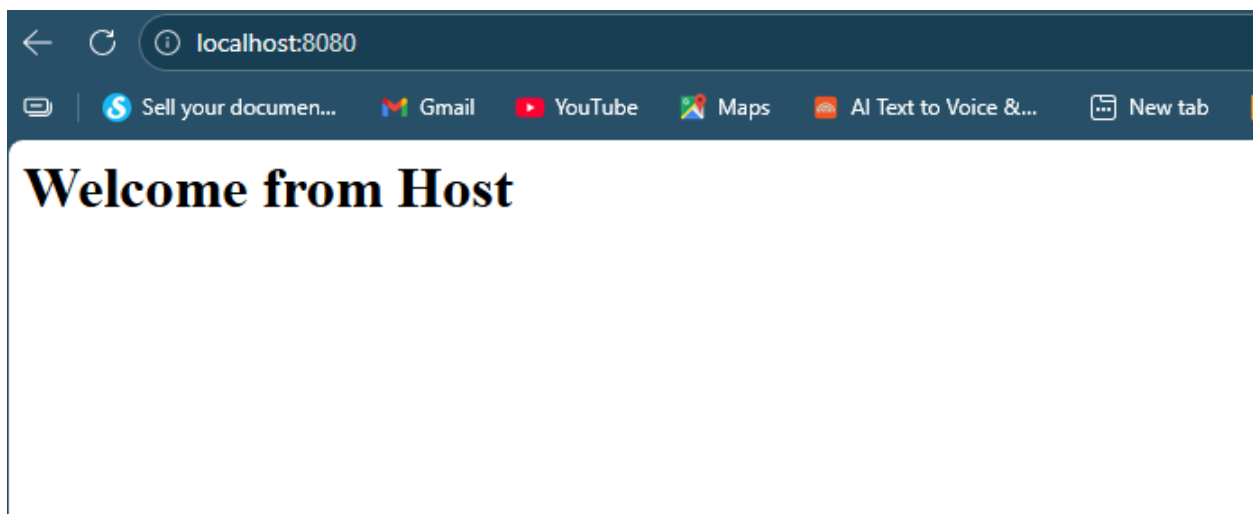
2026/02/20 16:46:23 [notice] 33#33: exit

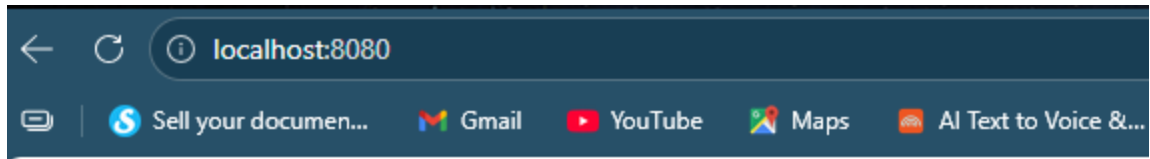
2026/02/20 16:46:23 [notice] 1#1: signal 17 (SIGCHLD) received from 31

2026/02/20 16:46:23 [notice] 1#1: worker process 31 exited with code 0

```
2026/02/20 16:46:23 [notice] 1#1: signal 29 (SIGIO) received
2026/02/20 16:46:23 [notice] 1#1: signal 17 (SIGCHLD) received from 34
2026/02/20 16:46:23 [notice] 1#1: worker process 34 exited with code 0
2026/02/20 16:46:23 [notice] 1#1: signal 29 (SIGIO) received
2026/02/20 16:46:23 [notice] 1#1: signal 17 (SIGCHLD) received from 32
2026/02/20 16:46:23 [notice] 1#1: worker process 32 exited with code 0
2026/02/20 16:46:23 [notice] 1#1: worker process 33 exited with code 0
2026/02/20 16:46:23 [notice] 1#1: worker process 35 exited with code 0
2026/02/20 16:46:23 [notice] 1#1: signal 29 (SIGIO) received
2026/02/20 16:46:23 [notice] 1#1: signal 17 (SIGCHLD) received from 30
2026/02/20 16:46:23 [notice] 1#1: worker process 30 exited with code 0
2026/02/20 16:46:23 [notice] 1#1: signal 29 (SIGIO) received
2026/02/20 16:46:23 [notice] 1#1: signal 17 (SIGCHLD) received from 36
2026/02/20 16:46:23 [notice] 1#1: worker process 36 exited with code 0
2026/02/20 16:46:23 [notice] 1#1: worker process 37 exited with code 0
2026/02/20 16:46:23 [notice] 1#1: exit
PS C:\Users\sr302>
```

Output:





Updated from Host Machine