

## INT-332 Practical-2

### **Example 1: Named Volume (Most Common & Recommended)**

```
PS C:\Users\sr302> docker volume create mydata  
mydata  
PS C:\Users\sr302> docker run -it --mount type=volume,source=mydata,target=/app/data ubuntu  
root@9172811adc4c:/# cd /app/data  
root@9172811adc4c:/app/data# echo "Hello from Volume">>file.txt  
root@9172811adc4c:/app/data# exit  
exit  
PS C:\Users\sr302> docker run -it --mount type=volume,source=mydata,target=/app/data ubuntu  
root@2ca7912eb8ff:/# cat /app/data/file.txt  
Hello from Volume  
root@2ca7912eb8ff:/# exit  
exit
```

### **Example 2: Bind Mount (Host ↔ Container Sync)**

```
PS C:\Users\sr302> mkdir C:\docker\website  
>>
```

Directory: C:\docker

| Mode  | LastWriteTime      | Length | Name    |
|-------|--------------------|--------|---------|
| ---   | -----              | -----  |         |
| d---- | 2/12/2026 11:10 AM |        | website |

```
PS C:\Users\sr302> notepad C:\docker\website\index.html
>>
PS C:\Users\sr302> notepad C:\docker\website\index.html
>>
PS C:\Users\sr302> docker run -it --name mynginx -v C:\docker\website:/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
2026/02/12 05:41:27 [notice] 1#1: using the "epoll" event method
2026/02/12 05:41:27 [notice] 1#1: nginx/1.29.4
2026/02/12 05:41:27 [notice] 1#1: built by gcc 14.2.0 (Debian 14.2.0-19)
2026/02/12 05:41:27 [notice] 1#1: OS: Linux 6.6.87.2-microsoft-standard-WSL2
2026/02/12 05:41:27 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2026/02/12 05:41:27 [notice] 1#1: start worker processes
2026/02/12 05:41:27 [notice] 1#1: start worker process 29
2026/02/12 05:41:27 [notice] 1#1: start worker process 30
2026/02/12 05:41:27 [notice] 1#1: start worker process 31
2026/02/12 05:41:27 [notice] 1#1: start worker process 32
2026/02/12 05:41:27 [notice] 1#1: start worker process 33
2026/02/12 05:41:27 [notice] 1#1: start worker process 34
2026/02/12 05:41:27 [notice] 1#1: start worker process 35
```

2026/02/12 05:41:27 [notice] 1#1: start worker process 36  
172.17.0.1 -- [12/Feb/2026:05:41:39 +0000] "GET / HTTP/1.1" 200 26 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/144.0.0.0 Safari/537.36 Edg/144.0.0.0" "-"  
^C2026/02/12 05:41:59 [notice] 35#35: signal 2 (SIGINT) received, exiting  
2026/02/12 05:41:59 [notice] 1#1: signal 2 (SIGINT) received, exiting  
2026/02/12 05:41:59 [notice] 30#30: signal 2 (SIGINT) received, exiting  
2026/02/12 05:41:59 [notice] 29#29: signal 2 (SIGINT) received, exiting  
2026/02/12 05:41:59 [notice] 30#30: exiting  
2026/02/12 05:41:59 [notice] 36#36: signal 2 (SIGINT) received, exiting  
2026/02/12 05:41:59 [notice] 29#29: exiting  
2026/02/12 05:41:59 [notice] 35#35: exiting  
2026/02/12 05:41:59 [notice] 36#36: exiting  
2026/02/12 05:41:59 [notice] 34#34: signal 2 (SIGINT) received, exiting  
2026/02/12 05:41:59 [notice] 32#32: signal 2 (SIGINT) received, exiting  
2026/02/12 05:41:59 [notice] 34#34: exiting  
2026/02/12 05:41:59 [notice] 30#30: exit  
2026/02/12 05:41:59 [notice] 29#29: exit  
2026/02/12 05:41:59 [notice] 32#32: exiting  
2026/02/12 05:41:59 [notice] 36#36: exit  
2026/02/12 05:41:59 [notice] 34#34: exit  
2026/02/12 05:41:59 [notice] 32#32: exit  
2026/02/12 05:41:59 [notice] 33#33: signal 2 (SIGINT) received, exiting  
2026/02/12 05:41:59 [notice] 33#33: exiting  
2026/02/12 05:41:59 [notice] 33#33: exit  
2026/02/12 05:41:59 [notice] 35#35: exit  
2026/02/12 05:41:59 [notice] 31#31: signal 2 (SIGINT) received, exiting  
2026/02/12 05:41:59 [notice] 31#31: exiting  
2026/02/12 05:41:59 [notice] 31#31: exit  
2026/02/12 05:41:59 [notice] 1#1: signal 17 (SIGCHLD) received from 33  
2026/02/12 05:41:59 [notice] 1#1: worker process 33 exited with code 0

```
2026/02/12 05:41:59 [notice] 1#1: worker process 35 exited with code 0
2026/02/12 05:41:59 [notice] 1#1: signal 29 (SIGIO) received
2026/02/12 05:41:59 [notice] 1#1: signal 17 (SIGCHLD) received from 29
2026/02/12 05:41:59 [notice] 1#1: worker process 29 exited with code 0
2026/02/12 05:41:59 [notice] 1#1: signal 29 (SIGIO) received
2026/02/12 05:41:59 [notice] 1#1: signal 17 (SIGCHLD) received from 34
2026/02/12 05:41:59 [notice] 1#1: worker process 32 exited with code 0
2026/02/12 05:41:59 [notice] 1#1: worker process 34 exited with code 0
2026/02/12 05:41:59 [notice] 1#1: signal 29 (SIGIO) received
2026/02/12 05:41:59 [notice] 1#1: signal 17 (SIGCHLD) received from 32
2026/02/12 05:41:59 [notice] 1#1: signal 17 (SIGCHLD) received from 36
2026/02/12 05:41:59 [notice] 1#1: worker process 36 exited with code 0
2026/02/12 05:41:59 [notice] 1#1: signal 29 (SIGIO) received
2026/02/12 05:41:59 [notice] 1#1: signal 17 (SIGCHLD) received from 30
2026/02/12 05:41:59 [notice] 1#1: worker process 30 exited with code 0
2026/02/12 05:41:59 [notice] 1#1: signal 29 (SIGIO) received
2026/02/12 05:41:59 [notice] 1#1: signal 17 (SIGCHLD) received from 31
2026/02/12 05:41:59 [notice] 1#1: worker process 31 exited with code 0
2026/02/12 05:41:59 [notice] 1#1: exit

PS C:\Users\sr302> notepad C:\docker\website\index.html
>>

PS C:\Users\sr302> docker exec -it mynginx bash
>>

Error response from daemon: container
7443a5cddd091680dfbdf0f670984ee54455479b9727ff7b29165bf51ba1f205 is not running

PS C:\Users\sr302> docker start mynginx
>>

mynginx

PS C:\Users\sr302> docker exec -it mynginx bash
>>
```

```
root@7443a5cddd09:/# ls
bin dev docker-entrypoint.sh home lib64 mnt proc run srv tmp var
boot docker-entrypoint.d etc lib media opt root sbin sys usr
root@7443a5cddd09:/# cat
cat /usr/share/nginx/html/index.html
cat /usr/share/nginx/html/index.html
docker stop mynginx
docker stop mynginx
```

### OUTPUT:



